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# NUMBERS & ODDITIES #
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-::: N&O #89, November 2004 :::-

"Huh? #89? Did I miss something here?", you might ask yourself. No, you didn't :-). The first 10 "Numbers & Oddities" columns were published in the WUN news letters in February - September 1995. N&O resurfaced in 1998, again as WUN column but now also as a separate newsletter for the members of the Spooks list and everyone else who is interested in numbers stations and other odd signals on HF. "Why did you start with #01 again in 1998 while you already published 10 N&O columns back in 1995?", I was asked. Good question. I don't know but with N&O #100 in sight I really like the suggestion to include the first 10 columns in the numbering :-)) Now you know the reason why I skipped numbers 79-88.

For those of you who are interested in the 1995 editions, just go to the N&O website and download the "1995-1997" file.

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N&O #01: originally published in February 1995
N&O #02: originally published in March 1995
N&O #03: Special edition of N&O and the Digital Review column.
        Originally published in March 1995
N&O #04: originally published in April 1995
N&O #05: originally published in May 1995
N&O #06: originally published in June 1995
N&O #07: originally published in July 1995
N&O #08: originally published in August 1995
N&O #09: originally published in September 1995
N&O #10: originally published in June 1997
        (Numbers special in the Digital Review)

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DECODE THE MESSAGE AND GET THE WUN CD FOR FREE!!!

I have uploaded a DTMF recording to the N&O download page. The first person who decodes the DTMF message correctly will receive the new WUN CD for free. The message consists of 15 characters. Good luck!!!

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Before I forget...

Other obligations made it impossible for me to edit N&O in October, but Jochen volunteered to edit #78 and I thank him for that.

Right, enough said. Let's get started.

This month's Contributors: Fritz, Mark, Bert, Leif, Igor, Scott, Steve, Jim, Tom, Walter, Attu, Peter, Dave, Chuck, Klaus, Tomonori, Deka, Al, Tom, Wolfgang, Anon Hungary, Aquila and the DARC Bandwacht.

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* VOICE STATIONS *

::: E03 - LINCOLNSHIRE POACHER

IDs used in the first half of November.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	69234	69234	69234	69234	69234	69234	69234	1200
1300	99780	99780	99780	99780	99780	99780	99780	1300
1400	41236	81508	15552	81118	69234	14060	33830	1400
1500	33830	41236	81508	15552	81118	69234	09494	1500
1600	09494	33830	41236	81508	15552	81118	14060	1600
1700	14060	09494	33830	41236	81508	15552	69234	1700
1800	69234	14060	09494	33830	41236	81508	81118	1800
1900	81118	99780	14060	99780	33830	41236	99780	1900
2000	99780	69234	99780	09494	99780	33830	15552	2000
2100	15552	81118	69234	14060	09494	99780	81508	2100
2200	81508	15552	81118	69234	14060	09494	41236	2200

Second half of November:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	97802	97802	97802	97802	97802	97802	97802	1200
1300	25812	25812	25812	25812	25812	25812	25812	1300
1400	98482	30559	83111	12147	97802	77321	70370	1400
1500	70370	98482	30559	83111	12147	97802	45245	1500
1600	45245	70370	98482	30559	83111	12147	77321	1600
1700	77321	45245	70370	98482	30559	83111	97802	1700
1800	97802	77321	45245	70370	98482	30559	12147	1800
1900	12147	25812	77321	25812	70370	98482	25812	1900
2000	25812	97802	25812	45245	25812	70370	83111	2000
2100	83111	12147	97802	77321	45245	25812	30559	2100
2200	30559	83111	12147	97802	77321	45245	98482	2200

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::: E04 - CHERRY RIPE

IDs in the first half of November.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	73057	52305	97212	42898	52305		2200
2300	52305	97212	42898	52305	33427		2300
0000		97212	42898	52305	33427	44038	0000
0100		42898	52305	33427	44038	80611	0100
1000		52305	33427	44038	80611	73057	1000
1100		33427	44038	80611	73057	52305	1100
1200		44038	80611	73057	52305	97212	1200
1300		80611	73057	52305	97212	42898	1300

IDs in the second half of the month.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	08650	89351	16401	89286	89351		2200
2300	89351	16401	89286	89351	84797		2300
0000		16401	89286	89351	84797	37168	0000
0100		89286	89351	84797	37168	80371	0100
1000		89351	84797	37168	80371	08650	1000
1100		84797	37168	80371	08650	89351	1100
1200		37168	80371	08650	89351	16401	1200
1300		80371	08650	89351	16401	89286	1300

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::: E07

Anon Hungary logged E07 on 7775 kHz at 2230 UTC on 20 Oct.

Message:

637 1 637 1 637 1 824 52 824 52
57232 79062 24989 43886 08875 51113 36414 70736 78296 11734
25745 97335 68927 97335 66220 18646 76933 11042 98394 74354
79664 79789 63987 39556 96163 23638 88855 89534 28157 57625
23938 92917 48432 81697 58698 49070 35800 11709 36540 01759
00039 01476 49086 31259 77744 77224 00003 68625 82427 82697
87097 87418
000 000

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::: E10

Alpha informs us that PCD is using the freqs 3150 and 4270 again at 0600 and 0630 UTC. ART is now on 3415 and 5435 at 0300 UTC.

E10 doesn't send many strings these days. Here are the ones that were observed in October and November plus the "1" suffixes.

???? kHz, 6-10, 0515 UTC: CIO 88
4650 kHz, 20-10, 2058 UTC: KPA E88211600K42211630
7810 kHz, 20-10, 2119 UTC: KPA E88211600K42211630
4270 kHz, 1-11, 2000 UTC: PCD 1
5820 kHz, 2-11, 2000 UTC: YHF 1
4270 kHz, 9-11, 2000 UTC: PCD 1
4270 kHz, 13-11, 2000 UTC: PCD 1
5820 kHz, 14-11, 2000 UTC: YHF 1
4270 kHz, 14-11, 1900 UTC: PCD 1
5435 kHz, 16-11, 2200 UTC: ART 1

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::: V02

Bert Herald writes on 16 Nov: "By almost total chance (dialing around) I have finally received my first spy station! I cross-referenced with the info on SpyNumbers.com, and it appears to be the Cuban station, Enigma ID M8. However, there are some differences. It was done in voice, not morse. Language was an automated-sounding Spanish voice (all numbers identical sounding). And it used an M8 frequency of 6797 kHz but at a time of 2200z. Any ideas? Is this a voice-version of M8 or something else?"

Congratulations with your first numbers log, Bert and welcome to Numbers R Us :-). I am sure that you know it by now, you have heard M08a's counterpart V02a.

The following is a quote from N&O #78:

"In mid-October we heard, that a citizen from Cuba, called "Pedro", was charged with spying and arrested (probably by the USA?) for 15 years in prison in Matanza (Cuba?). - Since these days, the "irregular presentation" of V2/2a increased. We hope, that we get more info for the next N&O edition."

I am afraid that this was based on a misinterpreted joke. Sorry about that :-)

A V02 log from Chris Smolinski triggered Mark Slaten's interest. Chris heard V02 at 2100 UTC at 6855 kHz on Thursday 11/11 and asks "A new V2a sked?"

Marks responds to this question and says:

"This log caught my eye as you don't hear V02a much at that time of the day. So I decided to check it out the next day at the same time and freq. The sked was heard again, and is actually V02c. V02c has callups different from V02a and the traffic for V02c is not limited to the standard 150 group message that V02a and M8c tend to send. The callups are a 3/2 type call. Example being 888 16 or 252 166. Also, another curiosity is the fact that there is a distinct pause after every 10 groups in the message. The transmitters seem to be better than the transmitters used by V02a also. I have been following this sked ever since then and have found that it appears to be a daily sked. It also has an earlier transmission at 0900 and 1000 UTC. It is then repeated at 2000 and 2100 UTC. Freqs that I have recovered so far are: 6855, 7520, 7527, 7887 and 7975 kHz. The 2000/2100 UTC sked seems to favor 7887/6855 kHz. I have my chart just about half complete with the skeds. I will post very soon.

Anyone else out there that can listen and fill in the blanks, please do, and post them in the database. By the way, V02c usually has his AM carrier up about 10-15 minutes prior to broadcast. I have heard it even earlier. So he should be a pretty easy find when searching the freqs."

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATIONS *

::: M16

Where is 8BY? The last log dates back to 14 August.

One of our correspondents in Corsica has been monitoring these guys during the past few years. He too reports silence on 8BY's frequencies 7668, 10248, 12075, 14931, 18415 and 20946 kHz.

Reports are most welcome.

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::: M21

Russian Air Defense with its typical =99 messages were on various freqs in October and November. It seems that the traffic load of M21 is gradually decreasing.

5201 and 7913.5 kHz in October. Both ID "0"
3322, 4851.5, 4951.5, 5372 kHz in November. ID "0"
5918.5 and 6823.5 kHz in November. ID "9"

::: M21 variant

3301 kHz: PSNN with message.

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::: M23

Igor has found M23 again. He observed it on 19558 kHz at 1000 UTC on
25 Nov in slow CW with call "951". The station signed off at 1010 UTC.

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::: M40

Observed by Igor on 4625 kHz at 1630 UTC on 17 Nov.

vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 619,782
vvv cq 782 cq 782 cq 782
hr hr 54 54 = =
73579 3t569 45t33 32573 61444 89t32 42754 15379 8465t 13176
21372 72778 98815 36t83 428t9 3t527 46529 7342t t9518 98237
683t7 14325 16894 52488 15219 t3585 32154 4t744 16362 25863
25378 21745 83433 73332 72835 th81 <pause>
t t t t t <dashes>
e e e e e e e e <dots>
t6815 46879 6tt4t 52472 728tt 8296t 25124 48819 42647 88981
42667 t5585 54933 526t8 2t487 33582 59282 72t21 91662
ar ar
rpt rpt
vvv cq 782 cq 782 cq 782
hr hr 54 54 = =
73579 3t569 45t33 32573 61444 89t32 42754 15379 8465t 13176
21372 72778 98815 36t83 428t9 3t527 46529 7342t t9518 98237
683t7 14325 16894 52488 15219 t3585 32154 4t744 16362 25863

25378 21745 83433 73332 72835 t6815 46879 6tt4t 52472 728tt
8296t 25124 48819 42647 88981 42667 t5585 54933 526t8 2t487
33582 59282 72t21 91662
ar ar

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::: M41 WZD

A former ÑNachrichtenoffizieri (Communications officer) of the East German army (Nationale Volks Armee) supplied the following info via one of our correspondents. Vielen Dank, OM!

WZD was operated by the Air Defense Forces of the former GDR. This network collected and transmitted coordinates of the aircraft that were monitored by the observation stations. You can compare it with M21 (Russian Air Defense). The messages consisted of 20 characters sent via cable and RTTY. Cloaked versions of these messages were also transmitted as exercise messages in high speed CW (100 char/minute). As said, the format of the CW messages was different. They consisted of only 14 characters. Most probably they omitted the checksum and the codes for the QTH of the sender and the hit rate estimate. The latter was a computer generated code that contained information about the theoretical hit rate of their weapons systems.

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::: M62

3486 kHz: Slovak Military, Trencin.

B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 + (1-10/10-10 and 1-11/10-11)
J7XD J7XD J7XD = D3QK D3QK D3QK + (11-10/20-10 and 11-11/20-11)
QR2U QR2U QR2U = KP6F KP6F KP6F + (21-10/31-10 and 21-11/30-11)

Best time to catch one of the very rare msg is around 0630 UTC.
Sample: KP6F=QTC107=1 20 21 0831 107=QR2U=KP6F=5LGx20=for QR2U=KP6F

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::: M89

The famous Chinese naval markers are still very much alive and kicking.

"V MW3D MW3D MW3D DE 2SLC 2SLC" on 7074 kHz
"V BFR7 BFR7 BFR7 DE 4XML 4XML" on 5756 kHz
"V 5J4I 5J4I 5J4I de YI4K YI4K" on 4770 kHz
"V XY5V XY5V XY5V DE 4PPW 4PPW" on 4928, 7145 kHz

"V GM3Z GM3Z GM3Z DE PNW9 PNW9" on 5635 kHz
"V CP17 CP17 CP17 DE L9CC L9CC" on 3544.5, 7031.8, 7054.5, 7057.8,
7059.7, 7063.8, 7072, 7079, 7080.7, 7086.7 kHz

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::: MX - CLUSTER BEACONS & CHANNEL MARKERS

Cluster beacons:

D - 4557.7, 5153.7, 7038.7, 8494.7, 10871.7, 13527.7, 16331.7,
20047.7 kHz
P - 8494.8, 10871.8, 13527.8 kHz
C - 4558, 7039, 8495, 10872, 13528, 16332 kHz
S - 5153.9, 8494.9, 10871.9, 13527.9, 16331.9, 20047.9 kHz
F - 7040.2, 13528.2, 16332.2 kHz
K - 7040.3 kHz
M - 7040.4, 13529.4, 16332.4 kHz

Cluster beacon "D" is reportedly also on spurious freqs 7000 and 7077.4 kHz, being 7038.7 kHz + and - 38.7 kHz. Odd.

Channel markers:

F - 8306 kHz
L - 3202.8 and 4424.5 kHz. Also heard on 5203.6 kHz.
P - 3167, 3291, 3649, 3699.5, 3877, 4043, 4050.8, 4476, 4550, 4828,
4899, 5982, 7000 kHz
R - 4325.8, 5465.8 kHz
V - 3658 kHz

-0-0-0-0-0-0-0-0-0-0-

* VARIOUS MODES *

::: M42

I received a note from Peter Thompson via Day Watson, editor of the Digital Review:

Peter Thompson emailed with the following late October saying "I don't know what they are calling themselves now [Dept of State Comms], but I received the attached this morning on 16285 in ITA2 75/500. It looks like it's their schedule from Nov 1st."

"RYRYRYRYRYRYRYRYRYRYRYRYRTRZRYRYRYRYRYRYRYRYR
RSZ RSZ RSZ QWK RSZ RSZ RSZ QWK RSZ RSZ RSZ QWK RSZ RSZ RSZ QWK

10671: Russian intelligence. 1020 UTC. 16 Oct. BAUDOT 200.33Bd/500Hz.
Auto broadcasting multi figure group message to recipient "118"
11063: Russian intelligence. 1340 UTC. 01 Nov. AM/MFSK-20/20Bd.
Auto broadcasting 5 figure group message to recipient "842"
12196: Russian intelligence. 1015 UTC. 16 Oct. BAUDOT 200.33Bd/500Hz.
Auto broadcasting multi figure group message to recipient "118"
13369: Russian intelligence. 0930 UTC. 01 Nov. AM/MFSK-20/20Bd.
Auto broadcasting 5 figure group message to recipient "513"
13462: Russian intelligence. 0920 UTC. 01 Nov. AM/MFSK-20/20Bd.
Auto broadcasting 5 figure group message to recipient "736"
14844: Russian intelligence. 0930 UTC. 01 Nov. AM/MFSK-20/20Bd.
Auto broadcasting 5 figure group message to recipient "736"
14953: Russian intelligence. 0930 UTC. 01 Nov. AM/MFSK-20/20Bd.
Auto broadcasting 5 figure group message to recipient "513"
14973: Dept. of State Comms, Moscow. 0733 UTC. 01 Nov. MFSK-32/CROWD36.
Tfc to UNID embassy on link 00089, offline crypto not spaced
as 5LGs.
18274: Dept. of State Comms, Moscow. 1030+1430 UTC. 01 Nov.
MFSK-32/CROWD36 40Bd/10Bd.
5LG offline crypto to unlocated embassy after on link 00096.
20322: Dept. of State Comms, Moscow. 0822 UTC. 06 Nov. MFSK-32/CROWD36.
Tfc to UNID embassy on link 10042, offline crypto not spaced
as 5LGs.

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::: S28

From a usually well informed source, I received interesting info about
UVB-76 (not UZB-76) a.k.a. "The Buzzer".

The exact location is 40 km North-West of Moscow, half-way between
Zelenograd and Solnechnogorsk. The facility is being operated by the
army. It is a communications hub of the General Staff of the army (Uzel
Svyazi Generalnogo Shtaba Armii). Earlier notes that state that this
station belongs to the Strategic Missile Troops are said to be incorrect.

The transmitter is a 15 kW "Molniya". The station is using a horizontal
multi-wire dipole ""VGDSH". The antenna farm is near the village of
Lozhki.

According to my contact this channel is part of a network that transmits
coded orders to military units, civil defence objects and recruitment
centers ("Voyenkomaty"). The recruitment centers reportedly monitor
UVB-76 around the clock.

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S28: The buzzer, buzzing away on 4625 kHz.

S30: The pip on 3756 kHz.

XM : Backward Music was heard on 5202 kHz.

XSL: Japanese navy modem a.k.a. "Slot Machine" on 4153, 4231.5, 4291, 6250, 6417, 6445, 8313, 8588, 8703.5 kHz

XSW: The Squeaky Wheel channel marker is a daily guest on 3828.9 kHz.

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::: JAMMERS

China: 9355, 9645, 9905, 9930, 11765, 12025, 13675, 15495, 15500, 15635, 15660, 15680, 17520, 17525, 17528, 17540, 17545, 21690 kHz.

Colombia: 6120 kHz.

Cuba "Havana gurgle": 670, 710, 6030, 7405, 9805, 11775, 11645, 13630, 13820, 14334, 18090 kHz.

Iran: 3875, 3880, 3885, 3915, 3927, 3940, 4250, 4277, 4365, 4375, 4380, 6240, 7490, 11520 kHz.

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* UNID STATIONS *

::: UNID "VWGZ" SOLVED

Unid VWGZ from N&O #69 has been identified by Tom. He writes: "That is Indian Navy, BNR means Bombay Naval radio and VWGZ is the collective callsign for all indian naval vessels, as far I as remember."

Thanks for the note, Tom. Here is the message again:

VWGZ ii nr bn 375/21 nr bn 375/21 ii zfg zfg
bnr 736/20 bnr 736/20 sjk sjk kan kan blo blo ii pp ii 20 1950
gr 86 gr86 = five one six nine juliet one seven three zero
6720 6984 4FG= gr 86 +

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::: UNID OLDIE

Igor found an old recording in his archives. It was slow machine sent CW. It's a real odd one, Igor!

t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt
t n t t t te ad tt a u vh ttt

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::: UNID CHINESE MILITARY(?) STATION

Igor reports an unid Chinese station, probably military, on 10823 kHz at 0641 UTC on 15 Nov.

id nr tt8 time 143t =
comm / 1500 / 1xz268 / 67121 / 67081 67044 67084 / 03 ar
agn id nr tt8 time 143t =
comm / 1500 / 1xz268 / 67121 / 67081 67044 67084 / 03 ar
id nr tt9 time 143t =
comm / 1600 to 1900 / 1xz279 / 67121 / 67179 / 03 ar
agn id nr tt9 time 143t =
comm / 1600 to 1900 / 1xz279 / 67121 / 67179 / 03 ar ar

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::: UNID "544"

Another one from Igor. Copied on 5611 kHz at 0016 UTC on 18 Oct. Machine sent CW.

544 544 544 (Repeated for 5 minutes)
= = =
ta6a3a4 ta6a3a4 (stopped)

Ideas anyone?

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::: UNID "U34D"

Observed by Attu on 3421 kHz. Callsign: U34D.
This station transmits its callsign at the following times; h+50-h+00 and H+20-h+30 each hour.

Info is most welcome.

-0-0-0-0-0-0-0-0-0-0-

* MILITARY STATIONS *

::: CIS / RUSSIAN / UKRANIAN STATIONS

Freq.	QSO	Callsigns / remarks
18.1		RDL Krasnodar site
2241.6		4E1Y
2598		HVV5, PY2P: Ukranian Military
3192		RMP: Baltic Fleet HQ Kaliningrad. Msg to collective REO
3207		6PMH, KXSB, EH3T
3211		9UAF: Ukranian Military
3217	3393	8TBB, EHWN, W2QU, PEY8, JEFW, ZRVD, WL1H, PUXF, 1YVZ
3229		N24Y, N10J
3354		ALDT, NTSN, PKAW, JZIG, PLPA, Y270, JZIG, IHSK, PKAW
3364		MLOY, 2ICE, V82C, TLWP, DD90
3348		M9MI, 3ND7: Ukranian Military //3863 kHz
3364		MLOY, 2ICE, V81C, TLWP, DD90
3365		5FGs
3383		TP3R, NCC9, 1XS2, 2MWW
3700		RMD98: VVV XXX XXX RMD98 RMD98 tesni_eskat proverka (not sure due to QRM)= (5FGs) ar
3775		OMCI, WEBP, DKKY, ETVK, XB1V, 5JLK, DKQ8, WG9B: Ukranian Military
3826		Ukranian Military, callsigns: D9TF, DKY2, 7HZJ, IDT2, FX1B, 03NM, M5TM, IN1Q, H4H6, FC90
3863		M9MI, 3ND7: Ukranian Military //3348 kHz
3893		JBX2, MKJR: Ukranian Military
3969	4471	QWWI, NE4N, L6SR, EJAP, M1A4, NROE
3981	4489	
4079		RMP: Russian Navy Kaliningrad. Circular to collective REO
4170		REA4: Russian Air Force HQ, Moscow //2737, 3735, 7018 kHz
4179		REA4: Russian Air Force HQ, Moscow
4456		NRHU
4471	3969	W7LR, 7ZPN
4475		5FGs
4489	3981	PKT6, 2CKJ, QF2B, 9HAN, PR3K, SBTU, ZCDN, OZLN
4872	5376	
4917		M3ZX
5001		7WVD
5233		RJS Vladivostok wkg RGZ57
5376	4872	ZCDW, V2HF, ITTN, QGM9, S5LX, Q51C
5400		2UVH, OTPA, 9SIG

5444 RAL59: Russian Warship wkg RIT/HQ Baltic Fleet Severomorsk
simplex in enciphered Morse. VKVLVLVVMVMMMLLMVVMMLLKKKKVK.
Requested by RIT on 11155

6240 RJS Vladivostok clg RMUE each hour at h+15 min. Radio
checks + chatter.

6624 3IJG, IBJF

7080 RDL

7566 RCV: Russian navy wkg RIR96

7696 RFJ94: Russian Air Force Moscow wkg RJC38, RCH84 (Eastern
Sector HQ)

7859 LQOZ, OSTA, AILH, 8PXR, Z51M

11155 RIT: Russian Navy Baltic Fleet. RIS96 de RIT QAP K. Clg
RCJD, RLA88, RJK84, RAL59, RHY73, RMZW, RKW95

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::: CIS NAVY (RDL/RLO/RKS)
Compiled by Fritz.

1) Frequencies

Very active last October, much less in November, on the following
freqs: 18.1, 3548, 7657, 8076, 8136, 9044, 9224, 9346, 10155, 10535,
10672, 11468, 12741, 12832, 13032, 14411, 14664, 19257, 22864 kHz.
Up to 10 frequencies may be in parallel.

2) Fixed 24h transmissions

h+28, h+58 regular transmissions
h+08, h+18, h+38, h+48 infrequent transmissions
h+nn non routine transmissions
XXX messages are not sent at +n8 times, but in between.

3) Message formats

- a) Traffic in CIS F1B system T600, speed 36/50 Bd
- b) Dito, with XXX XXX in CW Morse as preface
- c) Traffic in CW Morse:
RDL RDL RDL 88732 32267 88732 32267 88732 32267 k
- d) Traffic in CW Morse:
XXX XXX RDL RDL 55998 53230 nitka 5313 7616 k
UUU as preface means routine.

The following XXX code words were observed in Oct/Nov:
ORL%NKA BROSANJE TROJN%G ADYGEJSKIJ UDLINENNYJ
BANKETNYJ UPONIE NITKA OLEJNICA NAJTOWYJ MOLODEVNYJ

4) Call signs and locations

According to Trond Jacobsen findings RDL is part of a VLF network together with RLO and RKS. RDL on 18.1 kHz is active from Krasnodar, Nizhny Novgorod, Arkhangelsk, Tashkent, Molodechno, Kaliningrad? and Ryazan? RKS transmits from Murmansk? and RLO from Ryazan and St. Petersburg?

Maybe the VLF transmitter sites of the BETA chain of TS stations RJH63, RJH66, RJH69, RHJ77, RJH99 and RAB99 are used for RDL. There is a connection between some BETA stations and CISN HQ in Moscow. In the morning of October 20 RHJ77, RJH63, RJH69 and RJH90 in turn sent one short 4FG QTC with varying content to the Navy HQ RIW, which QSL'd.

I cannot decode T-600 messages. Therefor the following is based on CW tfc only. RDL is most often used, RLO and RKS very rarely. Three letter callsigns seem to be of a high priority in CIS Ny. Apart from the HQs in Moscow (RIW), Sevastopol (RCV), Vladivostok (RJS), Severomorsk (RIT) and Kaliningrad (RMP) there are few others: RDL, RLO and RKS RCB (Naval Air Transport), REO (Ny collective c/s, used by the fleet HQs), RKT (Ny unid), RKZ (Ny collective c/s, used by the fleet HQs)

I have never heard Ñ...de RDL(RLO RKS)i. Therefore I tend to believe, RDL, RLO and RKS are not senders, but addressees. RIP90, RGX94 and others are collective c/s for small units of maybe few vessels, REO and RKZ are used by the fleet HQs for the whole or major parts of a fleet and RDL, RLO and RKS may be used by Moscow HQ for important parts of forces, maybe beyond Ny. (In some publications RDL is referred to as ÑMIL, Moscowi only, not ÑNY, Moscowi). Transmitter sites may be everywhere and I think RIT and RCV transmitters are used too.

5) RDL/RLO/RKS and CIS Ny beacons

There were exercises of the RUSN in the Mediterranean Sea in September and the joint exercises of USN and CISN (ÑNorthern Eaglei) in the North Atlantic in October. This may explain why CISN beacons and RDL stations were very active in October and November. RDL/RLO/RKS however had very little traffic in November. There is obviously no direct connection to the activities of the beacons or of the fleets. The next CISN exercises (anti- terrorist campaign with NATO in the Mediterranean Sea and Pacific exercises in December) will perhaps show more.

<<<<<>>>>

::: JAPANESE MILITARY STATIONS

Both observed by Igor.

6475 kHz, Mode: CW, 0328 UTC, 24-11, 4-character groups.

...
~32t jr3m 9aj4 eu95 emam d7l9 la3k t0ip lbv9 nvu0
13qs krvu c57f k~3t v~0i jc4n v87m m8~4 bqnc s41c
~~~5 l9d4 6j9s 3vq8 52ug kp9~ ods5 541u ~4e7 bcsa  
gjh8 de~~ gk33 mp87 5c0a qlcj 063s ah25 ~kvd r~83  
sqvr qcgg ~~7t ja~~ ~4o2 0jq i qoaq k3m1 op2t 2oai  
j0sm ~9o2 ~8~~ ~cpj 5mk1 a86u djdb i5g3 3s3i bp2~  
7vk~ 49mm 0k3o g785 tk3h 1k79 5qmf hol5 qhok 653k  
5bbb qntd jcg u r8gt av78 85r3 hc56 15~j ... <qrm>  
~ugb n6oa h0la 7op0 vkn3 6o0f ~~4~ tcra 2e3t qdtd  
62md ekji 1jq i 13n9 j929 h95b up3s 9435 ifss 2n82  
mlee j6eo 3gpf r29h krco 6amm ut06 uu j~ gfhg k6kn  
0jc4 3g06 fe48 3972 dh n~ ha4h hhde 6e89 0pii ~ua8  
~~~~ oefi ugo2 p~~d o~~~ bni~ ic8l 85lh em2g ~~~~~  
~nhn ~3f2 v80m o055 om82 8ii4 ~d8 unj~ pvun 5o4j
~l~~ 5u7p 9i44 ~gi3 qhn0 9l97 ~~~k km4u inir 2jec
a7gj n~~~ ~ma 0pp6 rihs 6~um 86c1 tquf rut~ ~~~m
hod~ kntj 4h88 r8us kqgp lq~~ c24b cj~~ ~~~~ c0rd
hfo~ h8vo ~mc b4uf lmn2 avr9 8~~~ ~u40 ~jk ren9
4n~g o3if ~ld m7eh va2p tai3 edee 3r49 dun~ j9jn
3mbt 43pd lbnq plkv ~tg0 au0c 4j89 ~56b d9hf 8nek
haaa b9he brof nt9n 7rno og0v 3p5h 3~~8 ppp1 ljsp
h0~~ ~p6 6lv~ lvi3 ecg2 6cpl n90v 6ekn 7bca h0ie
qfc~ ~9hd cn~~ 7~tn euho ~v6o q~2s rn26 nsj~ ~~~v
m~jv m0po 7 bt
cp de jjf fb3 qru zic nr 0520 ar

8017 kHz, Mode: CW, 0005 UTC, 29 Nov, 4-character groups.

de jja20 r 401 va
de jjb20 r 401 va
de jje20 va
jjc20 de jja20 o ar ?
jjb20 var l\$1 k
de jjc20 ok va va
jjb20 de jja20 qtc var l, 1 k
de jjb20 k
hr m# var l\$ f p^^r w48 b d^^o nr 182 id @ 2908 45 =
szzs o^mp o^mp pzd p rz@ pspm pzp* m^^d dr*m r^m@ ii
p^zm d@sr s@sz @orz @r*o @roo s@rp @moo d@sd po@p ii
dmsd pzs r ^dmz rd@d p^md osr@ rosd prpd prz* p^d^ ii
@*sd omrp dops o*r@ do*d *z^^ pdoo zprs z@pr dpso ii

^sz^ mzm@ @d^@ ^dms dopo *pz@ @osp z^ss ar k
de jjb20 r 182 va
de jja20 va
jja20 jjd20 jje20 jjb20 de jjc20 qru ? k
de jja20 qru k
de jjd20 qru k
de jje20 qru k
de jjb20 qru k
de jjc20 qru va
de jja20 va
de jjd20 va
de jje20 va
de jjb20 va

Remarks:

Only 10 different characters are being used in the 4-character groups.
The Japanese characters in this message were replaced by the following symbols:

\$ for ---.
for -..-..
@ for - -.-..
* for .-.-
^ for ...-

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* STASI *

The East German Ministerium f,r Staatssicherheit (MfS - STASI) was one of the most feared secret services in the world. The old head quarters are now a museum and I decided to visit it when I was in Berlin a couple of weeks ago. It felt a bit strange when I walked through the corridors of the building in the Normannenstrasse 22 in Berlin. I have been in both East and West Berlin on a number of occasions during the cold war and experienced the highly exaggerated security measures in the DDR. It is no wonder that the MfS was feared and hated at the same time.

The MfS was so hated by the East German population that in the winter of 1989 civil rights demonstrators spontaneously formed groups which occupied the offices of the MfS in various districts and sub-districts. On the afternoon of 15 January 1990 representatives of the Citizensí Committees from different districts, together with the Military State Prosecutor, took over the Buildings 2 (counter-intelligence) and 18 (provisions) in the Normannenstrasse.

The museum is a "must see" for everyone who is interested in intelligence

and/or the cold war. You can buy a number of interesting books about the MfS and related organisations in the small museum shop.

Address:

10365 Berlin-Lichtenberg
Normannenstrasse 22, Haus 1
Einfahrt > Ruschestraße 103

Directions:

From Alexanderplatz
Underground - 5 (direction Lichtenberg and H^ohnow)
up to U-Bhf. Magdalenenstraße

or:

S-Bahn (Ring) until Station Frankfurter Allee
250 m walking or change to U-Bahn

Related websites:

<http://www.MfS-museum.de/e-v1/e1a.html>
<http://www.bstu.de/home.htm>
<http://www.MfS-sprache.de/>

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* MEMORY LANE *

The Gulf exploded last week. Activity on the airwaves is at an all time high - and that includes Numbers transmissions. I've heard from many of you and other readers of the notable increase in Numbers broadcasts, in particular, Phonetic Alphabet Stations which are reportedly operated by the Mossad.

Here's a run-down on the various phonetic stations that have been heard by numerous contributors in recent days. I haven't included the times because these stations are running virtually around the clock! Check at 15 past and 15 before the hour for "channel markers". These typically broadcast the phonetic callsign and the number "Two". This appears to be an indicator that there is "no traffic" to pass. Others appear on the hour or on the half-hour with their traffic.

| Callsign | Frequency (kHz) |
|---------------------|-----------------|
| ----- | ----- |
| Charlie India Oscar | 6745 |
| | 10125 |
| | 17966 |
| Echo Zulu India | 6840 |
| Juliet Sierra Romeo | 7540 |
| Kilo Papa Alpha | 7445 |
| Uniform Lima X-Ray | 4881 |

| | |
|----------------------|-------|
| Victor Lima Bravo | 7605 |
| | 12950 |
| Yankee Hotel Foxtrot | 7918 |

(Havana Moon in his "Los Numeros" column for the A*C*E bulletin in February 1991)

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* INTELLIGENCE PROFILE: PALESTINIAN AUTHORITY *

::: BACKGROUND

The Israel-PL0 Declaration of Principles on Interim Self-Government Arrangements (DOP), signed in Washington on 13 Sept 1993, provided for a transitional period not exceeding five years of Palestinian interim self-government in the Gaza Strip and the West Bank. Under the DOP, Israel agreed to transfer certain powers and responsibilities to the Palestinian Authority, which includes the Palestinian Legislative Council elected in January 1996, as part of the interim self-governing arrangements in the West Bank and Gaza Strip. A transfer of powers and responsibilities for the Gaza Strip and Jericho took place pursuant to the Israel-PL0 4 May 1994 Cairo Agreement on the Gaza Strip and the Jericho Area and in additional areas of the West Bank pursuant to the Israel-PL0 28 September 1995 Interim Agreement, the Israel-PL0 15 Jan 1997 Protocol Concerning Redeployment in Hebron, the Israel-PL0 23 Oct 1998 Wye River Memorandum, and the 4 September 1999 Sharm el-Sheikh Agreement. The DOP provides that Israel will retain responsibility during the transitional period for external and internal security and for public order of settlements and Israeli citizens. Direct negotiations to determine the permanent status of Gaza and West Bank that began in September 1999 after a three-year hiatus, were derailed by a second intifadah that broke out in September 2000. The resulting widespread violence in the West Bank and Gaza Strip, Israel's military response, and instability within the Palestinian Authority continue to undermine progress toward a permanent agreement.

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::: GENERAL

Country name: Palestina
Consisting of the self-governing areas West Bank and the Gaza Strip
(Qita Ghazzah)

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::: MILITARY BRANCHES

In accordance with the peace agreement, the Palestinian Authority is not permitted conventional military forces; there are, however, a Public Security Force and a civil Police Force.

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::: SECURITY & INTELLIGENCE

Al-Difaia al-Madani (Civil Defense)
Al-Amal-Khass (Special Security Force - SSF)
Al-Amn al-Riiasah (Presidential Security)
Al-Amn al-Mahafza (County Guard)
Al-Amn al-Wiqaii (Preventive Security Service)
Border Police
Istkhabbarat al-Askariyya (Military Intelligence)
Mukhabbarat al-Amma (General Intelligence)
Palestinian Police
Preventive Security Services - PSS
Quwat al-Amn al-Watani (National Security Force - NSF)
Shurta Bahariyya (Coast Guard)
Shurta al-Jawiya (Aerial Police)

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The situation within the Palestine Authority is unclear and complicated. The Palestine security forces are composed of many agencies that mostly operate independently. Nearly all of them reported directly to Arafat but there are also a number of militias that are not subordinated to the Palestinian Authority.

Earlier this year the Palestinian Authority announced a plan to reduce the number of agencies and to integrate all agencies that serve the interests of security into three main bodies. The Preventive Security Services, Police Forces and Civil Defense will report to the Ministry of Interior, while the Mukhabarat and Public Security would report directly to Arafat. It is however not clear if this is going to happen now that Arafat is no longer in charge.

The situation before Arafat's death is as follows.

Agencies that report directly to the President are:

Al-Amal-Khass (Special Security Force)
Al-Amn al-Riiasah (Presidential Security)
Mukhabbarat al-Amma (General Intelligence)
Istkhabbarat al-Askariyya (Military Intelligence)
Shurta Bahariyya (Coast Guard)
Shurta al-Jawiya (Aerial Police)

Al-Difaia al-Madani (Civil Defense)
Al-Amn al-Mahafza (County Guard)

Agencies that report to the Ministry of Interior:
Quwat al-Amn al-Watani (National Security Force)
Al-Amn al-Wiqaii (Preventive Security Service)
Al-Shurta Madaniyya (Civil Police)
Al-Difaia al-Madani (Civil Defense)
Border Police
Palestinian Police

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::: Al-Amal-Khass (Special Security Force - SSF)

SSF was formed in January 1995. It's mission is to gather information on opposition groups in other Arab countries.

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::: Al-Amn al-Riiasah (Presidential Security)

Originally named "Force 17" in the 1970's it was founded to provide security for the PLO and President Arafat. The group was involved in many terrorist attacks against Israel. When Arafat moved to Palestine, Force 17 merged into the Presidential Security force.

The Presidential Security force carries out security operations in conjunction with the National Security Force. Other duties are counter-terrorism and anti-opposition activities.

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::: Mukhabbarat al-Amma (General Intelligence)

The Mukhabbarat is the primary intelligence agency of the Palestinian Authority. Its main objectives are domestic and foreign intelligence-gathering, and counter-espionage.

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::: Al-Difaia al-Madani (Civil Defense)

This body was established to manage emergency situations. Its tasks are fire control, rescue operations and casualty evacuation.

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::: Quwat al-Amn al-Watani (National Security Force - NSF)

This force is the largest security service of the Palestine Authority. Maintaining the security of Palestinian-controlled areas is its first responsibility.

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::: Al-Amn al-Wiqaii (Preventive Security Service)

One of the most powerful of the security services, the Preventive Security Service is an undercover, secret police-type operation. The PSS is supposed to be a police force but many newspaper articles indicate otherwise. The organisation looks more like an army than a police force. According to analysts the PSS was formed to prevent terror but it turned into an organisation that supports and assists it. The agency has been criticized by human rights activists at home and abroad.

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::: Al-Shurta Madaniyya (Civil Police)

The Civil Police carry out day-to-day policing and lead a special rapid-deployment team to handle riots and execute counter-terrorism operations.

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::: Istkhabbarat al-Askariyya (Military Intelligence)

The Istkhabbarat is a preventive body that deals mainly with arrests and interrogations of opposition activists who might endanger the stability of the regime. This body also investigates some of the illegal actions of the Palestinian Authority's other intelligence and security bodies. The Military Police is said to be attached to Military Intelligence.

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::: Shurta Bahariyya (Coast Guard)

The Shurta Bahariyya is an elite unit deployed in Gaza. Its task is to protect the sea coast of the Palestinian Authority and prevent smuggling. It operates a number of patrol boats.

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::: Shurta al-Jawiya (Aerial Police)

The Shurta al-Jawiya is based on Force 14, Fatah's aviation unit. The unit is mainly used for the transportation of the President and other Palestinian leaders. It operates a couple of helicopters.

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::: Al-Amn al-Mahafza (County Guard)

The al-Amn al-Mahafza is a unit that supplies security services to the county governors and their offices.

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Sources:

Global Security

<http://www.globalsecurity.org/intell/world/palestine/>

CIA World Factbook

MEIA - Middle East International Affairs

<http://meria.idc.ac.il>

The Estimate

<http://www.theestimate.com>

Palestine history

<http://www.palestinehistory.com/>

Israeli Ministry of Foreign Affairs

<http://www.israel-mfa.gov.il>

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* INTELLIGENCE NEWS *

::: RUSSIA

FSB Reform: Changes Are Few and Far between

By Andrei Soldatov (www.agentura.ru - special to The Moscow News)

The three months that President Putin gave the Federal Security Service (FSB) to reform itself are coming to an end. Vladimir Putin signed off on a decree launching the reorganization of the FSB on July 11, 2004, but the subsequent course of tragic events apparently shifted the focus away from the reform.

Under the July decree, the FSB director is allowed to have only one first

deputy (the head of the Border Service with the rank of first deputy) and two deputies. In addition, FSB departments were abolished and replaced with services. According to informed sources, the organizational and T/O changes in the FSB have already been made, as have all the principal personnel appointments. This is what is known as of right now.

Many of the FSB subdivisions got away with just a facelift. For example, the structure responsible for the FSB's personnel policy only lost the word "department" in its title, emerging as the Organizational and Personnel Service. Even its chief is the same - Yevgeny Lovyrev.

Aleksandr Bezverkhny, head of military counterintelligence, whom this past June the President personally congratulated on his promotion to the rank of colonel-general (a three-star general), also kept his position. Ditto for Aleksandr Bortnikov who this past summer replaced Yury Zaostrovtssev as head of the Economic Security Department, now the FSB Economic Security Service. Vladimir Anisimov and Vyacheslav Ushakov, who in the fall of 2003 was appointed state-secretary, remain FSB deputy directors. The FSB first deputy director is still Sergei Smirnov, who is widely tipped as the next FSB director should Patrushev become deputy prime minister. Viktor Komogorov stays on as head of the FSB think-tank - the Analysis, Forecasting, and Strategic Planning Service.

The Counterintelligence and the Border Services have also retained their bosses: Oleg Syromolotov and Viktor Pronichev have kept their respective positions. It is noteworthy that reform of the regional structure of the latter department is still in progress: The FSB Border Service is moving from the linear principle of border protection to point/area protection. What this means in practice is that instead of the ten regional border directorates that Russia has today there will be seven (according to the number of the federal districts); each will have two or three territorial directorates.

The most far-reaching changes have been made at the FSB's antiterrorism subdivision - the Department for the Protection of the Constitutional System and the Fight against Terrorism.

First of all, the new structure got a new boss: Aleksandr Bragin. His entire experience in combating terrorism is limited to his brief stint in Moscow. He was appointed to the FSB central office in June 2003, as deputy head of the Counterterrorism Department. Prior to that he led the FSB Chelyabinsk Oblast Directorate and displayed unshakable loyalty to the President. Thus, in an interview with the Yuzhnouralskaya panorama daily, on May 25, 2000, Bragin said, in particular: "I voted for him. In my time, I had participated in a number of working conferences that he chaired as FSB director. He - Vladimir Vladimirovich Putin - was always distinguished for a highly objective, pragmatic and at the same time, humane approach to issues at hand."

Bragin hails from Saransk, prior to Chelyabinsk serving for years in Mordovia, a region that is far away from the south of Russia.

Furthermore, the Department for the Protection of the Constitutional System and the Fight against Terrorism now has a new subdivision: the International Terrorism Control Directorate. It seems that this innovation comes in response to the ongoing search for an external enemy. Perhaps, it has never occurred to anyone before to create what is, essentially, an "internal" security service - a subdivision on fighting international terrorism. Presumably, this directorate will be responsible for "wiping out militants abroad," the task that Vladimir Putin set in the wake of the Beslan hostage drama.

This directorate is now headed by Major General Yury Sapunov with the status of deputy chief of the service, who was moved to Moscow from Astrakhan where he was chief of the FSB Astrakhan Oblast Directorate. Before his appointment to the Astrakhan Directorate, he was first deputy of the FSB's famous Current Operations and Coordination Directorate for the North Caucasus (OKU). The directorate is famed for its relentless use of force in the Caucasus. The OKU comprises a special task service that locals have dubbed "death squads."

All the indications are that FSB tactics in the North Caucasus will not undergo any serious change. The regional Antiterrorism Operation Headquarters (ROSh) is still under the command of an FSB official, although the ROSh is formally part of the Interior Ministry structure. True, as of September 16, this is no longer Rear Admiral Yury Maltsev (who, a year ago, was moved from the FSB Directorate for Coordination of Counterterrorism Operations to the Interior Ministry with the rank of deputy minister), but Arkady Yedelev.

Before his appointment to the ROSh, Yedelev was head of the OKU where Yury Sapunov was serving. Despite the apparent similarity of the names of the two FSB directorates, these are two distinct structures. Even so, the similarity of their names reflects the FSB's general problems in the Caucasus both in conducting special operations and in coordinating them.

Aleksandr Zhdankov, who headed the antiterrorism department before Bragin, is still with the FSB. Moreover, he has received a very important post in the new structure as head of the FSB Control Service, formerly the FSB Inspectorate - in effect, its internal counterintelligence agency. This directorate served as a springboard for at least one federal minister: Before he became RF interior minister, Rashid Nurgaliyev was in charge of it.

Just before the Beslan hostage drama, Zhdankov was opportunely moved to another subdivision. This is why he did not have to come to the hostage

contingency headquarters and formally has nothing to do with the tragedy.

The FSB Investigation Directorate will most likely be headed up by its current acting chief, Yuri Anisimov. Anisimov's appointment marks the end to a bizarre story with the directorate's leadership, which was rather unpleasant for the special service. The fact is that after Sergei Balashov (he supervised the Edmond Pope case), the Investigation Directorate was briefly headed by Viktor Milchenko, who, to the horror of FSB personnel officials, happened to hold a Ukrainian passport. It is still a mystery how Milchenko had landed this key position not being a Russian citizen.

Thus far the changes in the Federal Security Service (except for the appearance of T/O fighters with Osama bin Laden) has admittedly been, rather, cosmetic. The key figures in the FSB leadership have stayed in their places while the general principle of its organization has remained virtually unchanged.

True, this is only logical: Nikolai Patrushev has been FSB director since 1999. For five years now the principal objective of the service itself, as well as of its head has stayed immutable - to serve as the main buttress of support for the President. Presumably, they have done a good job in this respect.

FSB structure (main divisions) after reform:

Director ñ Nikolay Patrushev
First deputy ñ Viktor Pronichev
First deputy ñ Sergei Smirnov
Deputy - Vyacheslav Ushakov
Deputy - Vladimir Anisimov

Services:

- Counterintelligence service - Oleg Syromolotov
- Service for the Protection of the Constitutional System and the
- Fight against Terrorism - Aleksandr Bragin
- Economic Security Service - Aleksandr Bortnikov
- Border Service - Viktor Pronichev
- Organizational and Personnel Service - Yevgeny Lovyrev
- The Analysis, Forecasting, and Strategic Planning Service -
Viktor Komogorov
- Control Service - Aleksandr Zhdankov
- Science and technical service ñ Nikolai Klimashin

Directorates:

- Military counterintelligence - Aleksandr Bezverkhny
- Investigation Directorate - Yuri Anisimov

(Source: Agentura)

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Federal Security Service (FSB) chief Nikolai Patrushev has said in an interview with NTV that some ten members of al-Qaeda are operating in the North Caucasus. We know them in terms of intelligence, and we'll take measures to neutralize their activities, either by destroying them or by detaining them and putting them on trial, Patrushev told the television channel.

(Source: American Foreign Policy Council)

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::: IRAN

Iraqi intelligence chief Muhammad al-Shahwani claimed on 14 October that 27 staffers at the Iranian Embassy are conducting espionage, and that they recruited the assassins of 18 Iraqi intelligence personnel, RFE/RL quoted Al-Sharqiyah television as reporting.

Iran also finances five radio stations and certain newspapers, that are used to gather intelligence for Iran's Islamic Revolution Guards Corps. In addition, another document found showed that Iran has provided \$45 million for militias affiliated with Iraqi political parties.

In Prague, the Czech News Agency reported that Iran, North Korea and several states of the former Soviet Union are among foreign intelligence services most frequently observed at work in the Czech Republic.

(Source: RFE/RL)

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Iran will launch its first spy satellite in March or April 2005, Uzi Rubin, head of the Defense Ministry department responsible for ballistic missile defense, has predicted, the Israeli newspaper Ha'aretz reported on 18 October.

Russian ballistic missiles, adapted by expatriate Russian experts, will serve as the basis for the satellite launcher, Rubin said. The Russian experts have advanced Iran's ballistic capabilities by significantly improving the accuracy of its Shahab-3 missile. That missile reportedly has a range of over 1,250 miles and can carry a one-ton warhead.

Iran is developing three satellites. Two weigh 20 to 60 kg and are expected to be launched mainly as a test. The third weighs 170 kg and is to carry a telescopic camera for espionage purposes. That is the one

that Rubin expects to be launched next spring, Ha'aretz said.

(Source: Ha'aretz Daily)

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::: JAPAN

BEIJING, Nov. 9 (Xinhuanet) -- Japan Defense Agency is studying the possibility of adding an electromagnetic wave detecting system on the East China Sea to strengthen collection and management of intelligence from China as well as supervision over Chinese warships and jets, People's Daily Online said.

The Agency decided earlier to build a station on Miyako Island of Okinawa County to intercept and handle communication signals of Chinese warships and aircraft, which will be put into operation in 2008. Since the China-Japan dispute over resources of East China Sea surfaced, Japan has enhanced all kinds of military deployment in this sea area and the two countries conducted consultations at the end of last month.

The Agency believes that a station on Miyako Island is not enough, and another one must be added at a southwest island to intercept and decode the rivalry's radio communication signals, Xinhuanet quoted Japanese newspaper Sankei Shimbun as saying.

(Source: Xinhua)

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An 82-year-old South Korean resident of Japan who has been arrested and is believed to be a former spy for North Korea kept in a notebook a record of his trips between Japan and North Korea in 1973 on a spy ship, Osaka police said. Shuichi Shin, a resident of Osaka, was arrested on suspicion of illegally entering Japan via Kansai airport near Osaka in May 2002.

In the notebook entries in Hangul, the Korean script, Shin wrote about what he learned during espionage training in North Korea, illegal departure and entry between Japan and North Korea in November and December 1973, and his suffering on the ship in rough seas, according to the police. The entries stopped in 1988, the police said.

In November 1973, Shin left Japan for North Korea on a spy ship without obtaining reentry permission, and reentered Japan illegally the following month aboard the vessel, the police said.

Shin has denied the allegations, the police said.

(Source: Kyodo News)

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::: USA

WASHINGTON (Reuters) - The USAF quietly has put into service a new weapon designed to jam enemy satellite communications, a significant step toward U.S. control of space. The so-called Counter Communications System was declared operational late last month at Peterson Air Force Base in Colorado Springs, the Air Force Space Command said.

The ground-based jammer uses electromagnetic radio frequency energy to knock out transmissions on a temporary and reversible basis, without frying components, the command said.

The system is operated by the 76th Space Control Squadron, a unit created in 2001 to explore technologies for controlling space, Brig. Gen. Larry James, vice commander of the Space and Missile Systems Command told the conference. The Air Force Space Command said the system was built from off-the-shelf commercial equipment, and made up an antenna, transmitters and receivers that can be loaded into a trailer and moved from place to place. Three such systems had been delivered since late last year, the command said. The program's budget for fiscal 2005 totaled \$6.2 million, according to the Congressional Research Service.

Citing "operational security" concerns, military officials declined to discuss how the jammer worked but equated it with traditional Air Force electronic warfare weapons that have been used since World War 2 to deceive, disrupt, deny, degrade or destroy targets.

(Source: Reuters)

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::: MYANMAR

YANGON October 23 ó The ruling State Peace and Development Council enacted a law repealing the National Intelligence Bureau Act, effectively abolishing the National Intelligence Bureau with immediate effect, the state media reported. The NIB, established in 1983, is an umbrella organization of all intelligence departments, including military intelligence, the criminal investigation department, bureau of special investigation and police special branch.

(Source: Kyodo News)

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::: ISRAEL

On October 7th, a series of explosions rocked resorts along Egypt's Red Sea coast, killing at least 35 and injuring hundreds of others in attacks widely believed to be directed at Israeli tourists. Following a massive investigation, the Israeli government has concluded that the bombings were carried out by al-Qaeda. And it has tasked the country's premier foreign intelligence organ, the MOSSAD, with a new priority: tracking and eliminating elements of the Bin Laden terrorist network. The new tasking, which appears to take precedence over the agency's current area of focus, Palestinian terrorist organizations, highlights the gravity of the perceived threat posed by al-Qaeda to the Jewish state.

(Source: American Foreign Policy Council)

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::: CHINA

A new ZY-2 satellite was launched on Nov 6. The ZY-2 is a low orbit digital imaging spacecraft used by the Chinese government, probably for both civilian and military reconnaissance purposes.

(Source: Jonathan's Space Report)

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::: FRANCE

The French spy satellite Helios 1B has been taken out of service. In mid-October the orbit of the satellite was lowered, taking it out of the path of Helios 1A and future successors.

(Source: Jonathan's Space Report)

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::: BULGARIA

A Romanian journalist was arrested in Russe, Bulgaria on suspicion of spying on Bulgaria's border facilities. Customs officials said they found two cameras on the reporter, one of which was miniature and was fixed on his eyeglasses.

He had entered Bulgaria's territory through the Danube Bridge that connects Russe with the Romanian Danube River bank. Mr Buhnic has filmed vendors in duty-free shops, who allegedly sold cigarettes in amounts

exceeding allowed limits, the TV said.

(Source: SFA and BNN via Agentura)

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::: UKRAINE

By signing a decree Ukrainian President Leonid Kuchma has created a Foreign Intelligence Service in Ukraine. The Ukrainian president's press service told Itar-Tass that the new structure had been formed with an aim to turn the intelligence into a more effective instrument to protect national interests. Oleg Sinyansky has been appointed to head the new service. The Foreign Intelligence Service has been created on the basis of the intelligence department and the intelligence units of the regional bodies of the Ukrainian Security Service as a separate state body. It will carry out intelligence in the political, economic, military, technological, scientific, information and ecological spheres, take part in the struggle against international organized crime and terrorism as well as to protect Ukraine's institutions and citizens abroad. The Foreign Intelligence Service will also be responsible for implementing and coordinating intelligence programs. The creation of the Foreign Intelligence Service will require amendments to 23 Ukrainian laws.

(Source: ITAR-TASS via Agentura)

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::: GREECE

Yannis Korantis, a career diplomat currently serving as ambassador to Belgium, has been named head of Greek intelligence and will take up his new post next month, Public Order Minister Georges Voulgarakis announced.

Korantis, 56, succeeds Pavlos Apostolidis, himself a former ambassador who led the EYP intelligence service for six years. He served in several diplomatic posts, including Belgrade, Washington, Strasbourg, Saudi Arabia and Brussels.

(Source: Turkish Press.com. via Agentura)

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::: PAKISTAN

President Gen. Pervez Musharraf on Sunday appointed a new chief for Pakistan's powerful spy agency after his predecessor was appointed chairman of the joint chiefs of military staff. Lt. Gen. Ashfaq Pervez

Kiyani was appointed director general of the Inter-Services Intelligence agency to replace Gen. Ahsanul Haq, the army's public relations department said. Haq was recently promoted to the rank of four-star general and appointed chairman of the joint chiefs of military staff to replace Gen. Muhammad Aziz Khan, who is retiring on Oct. 7.

Before becoming head of the ISI, Kiyani was the top army general in Rawalpindi, a city near the capital Islamabad where the army is headquartered. His former post was given to Lt. Gen. Salahuddin Satti.

(Source: Associated Press via Agentura)

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★ LOGS SECTION

| | | |
|--------|------|-------------------------------------------------------------------------------------|
| 2800 | M22 | 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB) |
| 3025.0 | M08a | ID 68454 70904 45543 CW 23-11-2004 Tue 1000 (MS) |
| 3025.0 | M08a | M8a or M8c i/p CW 25-11-2004 Thu 1008 (BM) |
| 3025.0 | M08c | ID 11031 57651 59303 CW 2-11-2004 Tue 1000 (MS) |
| 3025.0 | M08c | ID 97151 56472 74532 CW 6-11-2004 Sat 1000 (MS) |
| 3025.0 | M08c | ID ----- 10821 ----- (too weak to copy complete callup) CW 25-11-2004 Thu 1000 (MS) |
| 3167 | MX | Channel marker "P"+ RTTY msgs CW 27-11-2004 Sat 2100 (AB) |
| 3202.8 | MX | Channel marker "L" CW 31-10-2004 Sun 1955 (AB) |
| 3202.8 | MX | Channel marker "L" CW 7-11-2004 Sun 1939 (AB) |
| 3204.2 | MX | Channel marker "L". Drifting of its normal freq of 3202.8 CW 18-11-2004 2239 (AB) |
| 3244.0 | M08c | ID ----- 05641 (in progress) CW 6-11-2004 Sat |
| 3244.0 | M08c | ID 89302 13522 45541 CW 20-11-2004 Sat 1000 (MS) |
| 3244.0 | M08c | ID 92212 39992 47283 CW 27-11-2004 Sat 1000 (MS) |
| 3245.0 | V02 | 40103/54082/40253//S800M//Brooklyn USB 29-11-2004 Mon 0500 (GS) |
| 3245.0 | V02a | (YL/SS - Too weak to copy!) AM 26-11-2004 Fri 1100 |
| 3291 | MX | Channel marker "P" CW 23-10-2004 1615 (WC) |
| 3291 | MX | Channel marker "P" CW 26-10-2004 2249 (RGA) |
| 3291 | MX | Channel marker "P" //3699.5 //3837 kHz CW 26-10-2004 2249 (RGA) |
| 3360 | E10 | KPA2 AM 27-11-2004 Sat 2320 (AB) |
| 3485 | M62 | J7XD J7XD J7XD = D3QK D3QK D3QK + CW 14-10-2004 0610 (KB) |
| 3485 | M62 | Solvak Mil. Trencin. d3qkd3qkd3qk+j7xdj7xdj7xd= CW 14-10-2004 0610 (KB) |
| 3544.5 | M89 | V CP17 CP17 CP17 DE L9CC L9CC CW 16-11-2004 2140 (DARC) |
| 3593.7 | MX | Cluster beacon "D" CW 7-11-2004 Sun 2225 (AB) |
| 3593.8 | MX | Cluster beacon "P" CW 7-11-2004 Sun 2225 (AB) |

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| 3699.5 | MX | Channel marker "P" CW 26-10-2004 2249 (RGA) |
| 3699.5 | MX | Channel marker "P" //3291 //3837 kHz CW 26-10-2004 2249 (RGA) |
| 3699.5 | MX | Channel marker "P"+ RTTY msgs CW 27-11-2004 Sat 2100 (AB) |
| 3756 | S30 | The pip CW 31-10-2004 Sun 1953 (AB) |
| 3756.0 | S30 | The pip CW 7-11-2004 Sun 1939 (AB) |
| 3756.0 | S30 | USB 13-11-2004 Sat 0022 (LC2) |
| 3826.0 | M08a | ID 68451 70901 92374 (Using M8a format) CW 19-11-2004 Fri 1000 (MS) |
| 3828.9 | XSW | Squeaky Wheel CW 31-10-2004 Sun 1953 (AB) |
| 3828.9 | XSW | Squeaky Wheel channel marker USB 7-11-2004 Sun 1939 |
| 3837 | MX | Channel marker "P" //3291 //3699.5 kHz CW 26-10-2004 2249 (RGA) |
| 3925.0 | M08c | ID 92211 39991 47282 CW 26-11-2004 Fri 1000 (MS) |
| 3926.0 | M08a | ID 68453 45542 70903 CW 21-11-2004 Sun 1000 (MS) |
| 3926.0 | M08c | ID 10291 05642 20931 CW 7-11-2004 Sun 1000 (MS) |
| 3926.0 | M08c | ID 87732 92372 01532 CW 14-11-2004 Sun 1000 (MS) |
| 3962.0 | M08 | In progress//S800M//Brooklyn CW 30-11-2004 Tue 0402 |
| 4015.0 | V02 | USB 11-11-2004 Thu 0620 (FIB) |
| 4025.0 | M45 | 525-319/34=63293 CW 18-11-2004 Thu 1802 (HFD) |
| 4027.0 | M08c | ID ----- 57653 05641 (rpt of 1000z on 3244m) CW 6-11-2004 Sat 1100 (MS) |
| 4027.0 | M08c | ID 89302 13522 45541 (rpt of 1000z on 3244m) CW 20-11-2004 Sat 1100 (MS) |
| 4027.0 | M08c | ID 92212 39992 47283 (rpt of 1000z on 3244m) CW 27-11-2004 Sat 1100 (MS) |
| 4028.0 | V02 | 54043/85152/55312/Weak//S800M//Brooklyn USB 30-11-2004 Tue 0600 (GS) |
| 4028.0 | V02a | USB 19-11-2004 Fri 0200 (a6kxqa) |
| 4028.0 | V02a | In progress AM 27-11-2004 Sat 0204 (MT2) |
| 4028.0 | V02a | in progress AM 27-11-2004 Sat 0204 (MT2) |
| 4028.0 | V02a | in progress AM 27-11-2004 Sat 0314 (MT2) |
| 4028.0 | V02a | in progress AM 27-11-2004 Sat 0314 (MT2) |
| 4035 | V02a | DGI AM 8-11-2004 0433 (TAZ) |
| 4035.0 | V02a | ID 20442 73221 69563 YL/SS USB 6-11-2004 Sat 1000 (MS) |
| 4035.0 | V02a | ID 09292 73223 79162 (YL/SS) AM 20-11-2004 Sat 1000 |
| 4043 | MX | Channel marker "P"+ RTTY msgs CW 27-11-2004 Sat 2100 (AB) |
| 4153 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004 1606 (TI) |
| 4165 | E10 | CI02 AM 1-11-2004 Mon 1945 (JAQ) |
| 4165 | E10 | CI02 AM 2-11-2004 Tue 2045 (JAQ) |
| 4165 | E10 | CI02 AM 4-11-2004 Thu 1845 (JAQ) |
| 4165 | E10 | CI02 AM 8-11-2004 Mon 2045 (JAQ) |
| 4165 | E10 | CI02 AM 9-11-2004 Tue 1945 (JAQ) |
| 4165 | E10 | CI02 AM 10-11-2004 Wed 1945 (JAQ) |
| 4165 | E10 | CI02 AM 13-11-2004 Sat 1945 (JAQ) |

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| 4165 | E10 | CI02 AM 14-11-2004 Sun 1945 (JAQ) |
| 4165 | E10 | CI02 AM 16-11-2004 Tue 2245 (JAQ) |
| 4165 | E10 | CI02 AM 18-11-2004 Thu 1945 (JAQ) |
| 4165 | E10 | CI02 AM 20-11-2004 Sat 1945 (JAQ) |
| 4165 | E10 | CI02 AM 22-11-2004 Mon 1945 (JAQ) |
| 4173.0 | M08a | ID 68453 45542 70903 (rpt of 1000z on 3926m) CW
21-11-2004 Sun 1100 (MS) |
| 4173.0 | M08c | ID 10291 05642 20931 (rpt of 1000z on 3926m) CW
7-11-2004 Sun 1100 (MS) |
| 4173.0 | M08c | ID 87732 92372 01532 (rpt of 1000z on 3926m) CW
14-11-2004 Sun 1100 (MS) |
| 4173.0 | M08c | ID 92211 39991 47282 (rpt of 1000z on 3925m) CW
26-11-2004 Fri 1100 (MS) |
| 4174.0 | V02 | In progress, excellent reception//S800M//Brooklyn USB
29-11-2004 Mon 0312 (GS) |
| 4231.5 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004
1606 (TI) |
| 4241 | M22 | 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB) |
| 4241.0 | M22 | 4XZ msg in progress 5LG CW 14-11-2004 Sun 0022 (LC2) |
| 4270 | E10 | PCD2 AM 1-11-2004 Mon 1900 (JAQ) |
| 4270 | E10 | PCD2 AM 1-11-2004 Mon 1930 (JAQ) |
| 4270 | E10 | PCD1 AM 1-11-2004 Mon 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 2-11-2004 Tue 2000 (JAQ) |
| 4270 | E10 | PCD ?? ????? 50 FPT AM 2-11-2004 Tue 2030 (JAQ) |
| 4270 | E10 | PCD 25 ????? 105 JCQHQ AM 2-11-2004 Tue 2100 (JAQ) |
| 4270 | E10 | PCD 33 PJPOQ AM 4-11-2004 Thu 1800 (JAQ) |
| 4270 | E10 | PCD 63 ABQQF AM 4-11-2004 Thu 1830 (JAQ) |
| 4270 | E10 | PCD2 AM 4-11-2004 Thu 1900 (JAQ) |
| 4270 | E10 | PCD2 AM 8-11-2004 Mon 2000 (JAQ) |
| 4270 | E10 | PCD ?7 ZEUVT AM 8-11-2004 Mon 2030 (JAQ) |
| 4270 | E10 | PCD 15????? AM 8-11-2004 Mon 2100 (JAQ) |
| 4270 | E10 | PCD2 AM 9-11-2004 Tue 1900 (JAQ) |
| 4270 | E10 | PCD 17 STMWL AM 9-11-2004 Tue 1930 (JAQ) |
| 4270 | E10 | PCD1 AM 9-11-2004 Tue 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 10-11-2004 Wed 1900 (JAQ) |
| 4270 | E10 | PCD Tx Progress AM 10-11-2004 Wed 1930 (JAQ) |
| 4270 | E10 | PCD2 AM 10-11-2004 Wed 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 13-11-2004 Sat 1900 (JAQ) |
| 4270 | E10 | PCD 15 PCKZR AM 13-11-2004 Sat 1930 (JAQ) |
| 4270 | E10 | PCD1 AM 13-11-2004 Sat 2000 (JAQ) |
| 4270 | E10 | PCD1 AM 14-11-2004 Sun 1900 (JAQ) |
| 4270 | E10 | PCD 15 PCKZR AM 14-11-2004 Sun 1930 (JAQ) |
| 4270 | E10 | PCD2 AM 14-11-2004 Sun 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 16-11-2004 Tue 2200 (JAQ) |
| 4270 | E10 | PCD2 AM 16-11-2004 Tue 2230 (JAQ) |
| 4270 | E10 | PCD2 AM 16-11-2004 Tue 2300 (JAQ) |
| 4270 | E10 | PCD 73 LBWDD AM 18-11-2004 Thu 1900 (JAQ) |
| 4270 | E10 | PCD2 AM 18-11-2004 Thu 1930 (JAQ) |

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| 4270 | E10 | PCD2 AM 18-11-2004 Thu 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 20-11-2004 Sat 1900 (JAQ) |
| 4270 | E10 | PCD2 AM 20-11-2004 Sat 1930 (JAQ) |
| 4270 | E10 | PCD2 AM 20-11-2004 Sat 2000 (JAQ) |
| 4270 | E10 | PCD2 AM 22-11-2004 Mon 1930 (JAQ) |
| 4270 | E10 | PCD2 AM 22-11-2004 Mon 2000 (JAQ) |
| 4291 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004
1607 (TI) |
| 4325.8 | MX | Channel marker "R" CW 31-10-2004 Sun 1956 (AB) |
| 4331 | M22 | 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB) |
| 4360 | E10 | VLB2 AM 2-11-2004 Tue 2045 (JAQ) |
| 4360 | E10 | VLB2 AM 4-11-2004 Thu 1845 (JAQ) |
| 4360 | E10 | VLB2 AM 8-11-2004 Mon 2045 (JAQ) |
| 4360 | E10 | VLB2 AM 9-11-2004 Tue 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 10-11-2004 Wed 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 13-11-2004 Sat 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 14-11-2004 Sun 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 16-11-2004 Tue 2245 (JAQ) |
| 4360 | E10 | VLB2 AM 18-11-2004 Thu 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 20-11-2004 Sat 1945 (JAQ) |
| 4360 | E10 | VLB2 AM 22-11-2004 Mon 1945 (JAQ) |
| 4424.5 | MX | Channel marker "L" CW 31-10-2004 Sun 1600 (WC) |
| 4461 | E10 | FTJ AM 20-10-2004 2100 (AHNG) |
| 4461 | E10 | FTJ ENEWH AM 8-11-2004 Mon 2000 (JAQ) |
| 4463 | E10 | FTJ2 AM 1-11-2004 Mon 1900 (JAQ) |
| 4463 | E10 | FTJ2 AM 4-11-2004 Thu 1800 (JAQ) |
| 4463 | E10 | FTJ2 AM 9-11-2004 Tue 1900 (JAQ) |
| 4463 | E10 | FTJ2 AM 10-11-2004 Wed 1900 (JAQ) |
| 4463 | E10 | FTJ2 AM 13-11-2004 Sat 1900 (JAQ) |
| 4463 | E10 | FTJ2 AM 14-11-2004 Sun 1900 (JAQ) |
| 4463 | E10 | FTJ 19 ZPIRB AM 16-11-2004 Tue 2200 (JAQ) |
| 4463 | E10 | FTJ2 AM 18-11-2004 Thu 1900 (JAQ) |
| 4463 | E10 | FTJ2 AM 22-11-2004 Mon 1900 (JAQ) |
| 4478.0 | M08c | ID 11031 57651 59303 (rpt of 1000z on 3025m) CW
2-11-2004 Tue 1100 (MS) |
| 4478.0 | M08c | ID 97151 56472 74532 CW 6-11-2004 Sat 1100 (MS) |
| 4478.0 | M08c | ID ----- 50752 ----- (fades out) CW 20-11-2004 Sat |
| 4478.0 | M08c | ID ----- 10821 ----- (too weak to copy complete callup
again) CW 25-11-2004 Thu 1100 (MS) |
| 4479.0 | V02a | In progress; bad squeal on Xmtr. (Xmtr off 0349) AM
17-11-2004 Wed 0305 (MT2) |
| 4490.0 | M01 | 197-691/32=26879 CW 2-11-2004 Tue 2000 (HFD) |
| 4507.0 | V02a | ID 20442 73221 69563 YL/SS (rpt of 1000z on 4035m) USB
6-11-2004 Sat 1100 (MS) |
| 4507.0 | V02a | ID 09292 73223 79162 (YL/SS) (rpt of 1000z on 4035m)
AM 20-11-2004 Sat 1100 (MS) |
| 4507.0 | V02a | USB 20-11-2004 Sat 1100 (a6kxqa) |
| 4534.0 | E07 | 473:1-909/33=54760 AM 4-11-2004 Thu 2150 (HFD) |

4557.7 MX Cluster beacon "D" CW 7-11-2004 Sun 2225 (AB)
4557.7 MX Cluster beacon "D" CW 19-11-2004 2215 (AB)
4557.8 MX Cluster beacon "P" CW 7-11-2004 Sun 2225 (AB)
4557.9 MX Cluster beacon "S" CW 19-11-2004 2215 (AB)
4562 E10 in progress AM 20-10-2004 2103 (AHNG)
4585.0 G06 308/0 AM 1-11-2004 Mon 2000 (HFD)
4625 M53 vvv cq 619,782 CW 17-11-2004 1630 (IB)
4625 S28 The buzzer AM 31-10-2004 Sun 1953 (AB)
4625.0 S28 The buzzer AM 7-11-2004 Sun 1941 (AB)
4648 E10 KPA2 AM 10-11-2004 Wed 1915 (JAQ)
4648 E10 KPA2 AM 19-11-2004 2018 (RGA)
4650 E10 KPA2 AM 19-10-2004 2115 (AHNG)
4650 E10 KPA E88211600K42211630 AM 20-10-2004 2058 (AHNG)
4661 E10 in progress AM 19-10-2004 2135 (AHNG)
4770 M89 V HJ4I HJ4I HJ4I DE YI4K YI4K CW 30-9-2004 1250 (DJ)
4770 M89 V HJ4I HJ4I HJ4I DE YI4K YI4K CW 3-10-2004 1245 (AtB)
4781 E10 MIW2 AM 19-11-2004 2021 (RGA)
4792.0 G06 ip AM 26-11-2004 Fri 1935 (HFD)
4880 E10 ULX AM 19-10-2004 2130 (AHNG)
4880 E10 ULX2 AM 1-11-2004 Mon 1900 (JAQ)
4880 E10 ULX ?9 AONZA AM 2-11-2004 Tue 2000 (JAQ)
4880 E10 ULX 119 UPAHC AM 4-11-2004 Thu 1800 (JAQ)
4880 E10 ULX 29 AONZA AM 8-11-2004 Mon 2000 (JAQ)
4880 E10 ULX2 AM 9-11-2004 Tue 1900 (JAQ)
4880 E10 ULX2 AM 10-11-2004 Wed 1900 (JAQ)
4880 E10 ULX2 AM 13-11-2004 Sat 1900 (JAQ)
4880 E10 ULX2 AM 14-11-2004 Sun 1900 (JAQ)
4880 E10 ULX2 AM 16-11-2004 Tue 2200 (JAQ)
4880 E10 ULX2 AM 17-11-2004 1850 (KK2)
4880 E10 ULX2 AM 18-11-2004 Thu 1900 (JAQ)
4880 E10 ULX2 AM 22-11-2004 Mon 1900 (JAQ)
4927.0 M13 ID 411 CW 7-11-2004 Sun 2130 (AB)
4928 M89 V XY5V XY5V XY5V DE 4PPW 4PPW CW 10-10-2004 1624 (TI)
4950 MX Russian Air Defense CW 4-11-2004 0200 (DmA)
4951.5 M21 Russian Air Defense CW 13-11-2004 2126 (AB)
5039.0 S04 edna nol nol for 3FG id russian USB 10-11-2004 Wed
0009 (LC2)
5070.0 S06 537-469/8=82936 AM 4-11-2004 Thu 1700 (HFD)
5091 E10 in progress AM 19-10-2004 2137 (AHNG)
5091 E10 Mostly in the noise AM 29-10-2004 Fri 1531 (DNZ)
5091 E10 JSR 13 BBLQO AM 1-11-2004 Mon 1900 (JAQ)
5091 E10 JSR 13 HBBWY AM 1-11-2004 Mon 1930 (JAQ)
5091 E10 JSR 107 NRCJQ ?? ???? AM 2-11-2004 Tue 2030 (JAQ)
5091 E10 JSR2 AM 4-11-2004 Thu 1800 (JAQ)
5091 E10 JSR 08 BAEVR AM 4-11-2004 Thu 1830 (JAQ)
5091 E10 JSR2 AM 8-11-2004 Mon 2000 (JAQ)
5091 E10 JSR 107 NRCJQ AM 8-11-2004 Mon 2030 (JAQ)
5091 E10 JSR 13 BBLQO 99 GQRSY AM 9-11-2004 Tue 1900 (JAQ)

5091 E10 JSR 09 DRZVM AM 9-11-2004 Tue 1930 (JAQ)
5091 E10 JSR2 AM 9-11-2004 Tue 2000 (JAQ)
5091 E10 JSR 13 KIMUY AM 10-11-2004 Wed 1900 (JAQ)
5091 E10 JSR 73 GVRUT AM 10-11-2004 Wed 1930 (JAQ)
5091 E10 JSR2 AM 10-11-2004 Wed 2000 (JAQ)
5091 E10 JSR 108 BZGOD AM 13-11-2004 Sat 1900 (JAQ)
5091 E10 JSR 118. QCMJO AM 13-11-2004 Sat 1930 (JAQ)
5091 E10 JSR2 AM 13-11-2004 Sat 2000 (JAQ)
5091 E10 JSR 108 BZGOD AM 14-11-2004 Sun 1900 (JAQ)
5091 E10 JSR 67 QZZK? AM 14-11-2004 Sun 1930 (JAQ)
5091 E10 JSR2 AM 14-11-2004 Sun 2000 (JAQ)
5091 E10 JSR AM 16-11-2004 Tue 2200 (JAQ)
5091 E10 JSR 63 LIUQE AM 16-11-2004 Tue 2230 (JAQ)
5091 E10 JSR2 AM 18-11-2004 Thu 1900 (JAQ)
5091 E10 JSR 117 CPPHS AM 18-11-2004 Thu 1930 (JAQ)
5091 E10 JSR2 AM 18-11-2004 Thu 2000 (JAQ)
5091 E10 JSR 94 NKLBK AM 20-11-2004 Sat 1900 (JAQ)
5091 E10 JSR2 AM 20-11-2004 Sat 1930 (JAQ)
5091 E10 JSR2 AM 20-11-2004 Sat 2000 (JAQ)
5091 E10 JSR 24 PNEDN AM 22-11-2004 Mon 1900 (JAQ)
5091 E10 JSR2 AM 22-11-2004 Mon 1930 (JAQ)
5091 E10 JSR2 AM 22-11-2004 Mon 2000 (JAQ)
5091.0 E10 JSR 2 msgs: 13 KIMUW, 99 GQRSY/7540 USB 7-11-2004 Sun 1900 (JS3)
5091.0 E10 USB 19-11-2004 Fri 0330 (a6kxqa)
5092 E10 JSR2 AM 1-11-2004 Mon 2000 (JAQ)
5092 E10 JSR 57 YIDRC AM 2-11-2004 Tue 2100 (JAQ)
5092 E10 JSR 13 ???? 99 GQPSY AM 4-11-2004 Thu 1900 (JAQ)
5092 E10 JSR 109 NVGMV AM 8-11-2004 Mon 2100 (JAQ)
5103.0 E07 981:1-515/91=82178 AM 15-11-2004 Mon 2140 (HFD)
5135.0 V02a USB 19-11-2004 Fri 0100 (a6kxqa)
5153.7 MX Cluster beacon "D" CW 31-10-2004 Sun 2000 (AB)
5153.7 MX Cluster beacon "D" CW 7-11-2004 Sun 1939 (AB)
5153.9 MX Cluster beacon "S" CW 12-10-2004 1705 (WC)
5153.9 MX Cluster beacon "S" CW 23-10-2004 0513 (WC)
5159 M22 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB)
5159.0 M22 4XZ msg in progress 5LG CW 14-11-2004 Sun 0022 (LC2)
5170 E10 SYN2 AM 1-11-2004 Mon 1945 (JAQ)
5172.0 E07 473:1-909/33=54760 AM 4-11-2004 Thu 2130 (HFD)
5172.0 E07 473/0 AM 25-11-2004 Thu 2130 (HFD)
5202 XM Whales 26-10-2004 1630 (FN)
5320.0 M01 197 CW 11-11-2004 Thu 1800 (HFD)
5422 E03 ID 77492 AM 29-10-2004 Fri 1801 (DNZ)
5424.0 E03 ID 41236 USB 11-11-2004 Thu 1700 (DNZ)
5433 E10 Mostly in the noise AM 29-10-2004 Fri 1531 (DNZ)
5435 E10 in progress AM 19-10-2004 2137 (AHNG)
5435 E10 ART2 AM 1-11-2004 Mon 1900 (JAQ)
5435 E10 ART 48 CQWDH AM 1-11-2004 Mon 1930 (JAQ)

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| 5435 | E10 | ART 57 ????? AM 1-11-2004 Mon 2000 (JAQ) |
| 5435 | E10 | ART 57 WTRAM AM 2-11-2004 Tue 2000 (JAQ) |
| 5435 | E10 | ART 39 QFQUD AM 2-11-2004 Tue 2030 (JAQ) |
| 5435 | E10 | ART 2 AM 2-11-2004 Tue 2100 (JAQ) |
| 5435 | E10 | ART2 AM 4-11-2004 Thu 1800 (JAQ) |
| 5435 | E10 | ART 23 TALJS AM 4-11-2004 Thu 1830 (JAQ) |
| 5435 | E10 | ART2S5 AM 4-11-2004 Thu 1900 (JAQ) |
| 5435 | E10 | ART 83 JPWAF AM 8-11-2004 Mon 2000 (JAQ) |
| 5435 | E10 | ART 29 QFQUQ AM 8-11-2004 Mon 2030 (JAQ) |
| 5435 | E10 | ART 2 AM 8-11-2004 Mon 2100 (JAQ) |
| 5435 | E10 | ART2 AM 9-11-2004 Tue 1900 (JAQ) |
| 5435 | E10 | ART 48 CQWDH AM 9-11-2004 Tue 1930 (JAQ) |
| 5435 | E10 | ART 83 WWZHX AM 9-11-2004 Tue 2000 (JAQ) |
| 5435 | E10 | ART2 AM 10-11-2004 Wed 1900 (JAQ) |
| 5435 | E10 | ART 48 CQWDH AM 10-11-2004 Wed 1930 (JAQ) |
| 5435 | E10 | ART 83 WWZHX AM 10-11-2004 Wed 2000 (JAQ) |
| 5435 | E10 | ART2 AM 13-11-2004 Sat 1900 (JAQ) |
| 5435 | E10 | ART 48 CQWDH AM 13-11-2004 Sat 1930 (JAQ) |
| 5435 | E10 | ART 46 WXEJW AM 13-11-2004 Sat 2000 (JAQ) |
| 5435 | E10 | ART2 AM 14-11-2004 Sun 1900 (JAQ) |
| 5435 | E10 | ART 72 WKDUJ AM 14-11-2004 Sun 1930 (JAQ) |
| 5435 | E10 | ART 102 CCOYQ AM 14-11-2004 Sun 2000 (JAQ) |
| 5435 | E10 | ART1 AM 16-11-2004 Tue 2200 (JAQ) |
| 5435 | E10 | ART2 AM 16-11-2004 Tue 2230 (JAQ) |
| 5435 | E10 | ART 55 QHZIZ AM 16-11-2004 Tue 2300 (JAQ) |
| 5435 | E10 | ART2 AM 18-11-2004 Thu 1900 (JAQ) |
| 5435 | E10 | ART 72 WKDUJ AM 18-11-2004 Thu 1930 (JAQ) |
| 5435 | E10 | ART 38 TUJCS AM 18-11-2004 Thu 2000 (JAQ) |
| 5435 | E10 | ART2 AM 20-11-2004 Sat 1900 (JAQ) |
| 5435 | E10 | ART 72 WKDUJ AM 20-11-2004 Sat 1930 (JAQ) |
| 5435 | E10 | ART 2 AM 20-11-2004 Sat 2000 (JAQ) |
| 5435 | E10 | ART2 AM 22-11-2004 Mon 1900 (JAQ) |
| 5435 | E10 | ART 72 WKDUJ AM 22-11-2004 Mon 1930 (JAQ) |
| 5435 | E10 | ART 39 WGLDI AM 22-11-2004 Mon 2000 (JAQ) |
| 5465.0 | M01 | 197 CW 7-11-2004 Sun 0700 (HFD) |
| 5465.8 | MX | Channel marker "R" CW 31-10-2004 Sun 1956 (AB) |
| 5465.8 | MX | Channel marker "R" CW 7-11-2004 Sun 1939 (AB) |
| 5635 | M89 | V GM3Z GM3Z GM3Z DE PNW9 PNW9 CW 30-9-2004 1247 (DJ) |
| 5756 | M89 | V BFR7 BFR7 BFR7 DE 4XML 4XML CW 7-10-2004 2014 (PP) |
| 5756 | M89 | V BFR7 BFR7 BFR7 DE 4XML 4XML CW 7-10-2004 2014 (PP) |
| 5762.0 | V02a | USB 19-11-2004 Fri 0400 (a6kxqa) |
| 5780.0 | E06 | 519/0 AM 3-11-2004 Wed 2100 (HFD) |
| 5820 | E10 | AM 29-10-2004 Fri 1518 (DNZ) |
| 5820 | E10 | Mostly in the noise AM 29-10-2004 Fri 1530 (DNZ) |
| 5820 | E10 | AM 29-10-2004 Fri 1805 (DNZ) |
| 5820 | E10 | YHF 21 LRSJD AM 1-11-2004 Mon 1900 (JAQ) |
| 5820 | E10 | YHF 13 RTSCB AM 1-11-2004 Mon 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 1-11-2004 Mon 2000 (JAQ) |

| | | |
|--------|------|----------------------------------------------------------------|
| 5820 | E10 | YHF1 AM 2-11-2004 Tue 2000 (JAQ) |
| 5820 | E10 | YHF 33 NLVHS AM 2-11-2004 Tue 2100 (JAQ) |
| 5820 | E10 | YHF 40 SKCCB AM 4-11-2004 Thu 1800 (JAQ) |
| 5820 | E10 | YHF 70 JKVIK AM 4-11-2004 Thu 1900 (JAQ) |
| 5820 | E10 | YHF2 AM 8-11-2004 Mon 2000 (JAQ) |
| 5820 | E10 | YHF 14 SNPWN AM 8-11-2004 Mon 2100 (JAQ) |
| 5820 | E10 | YHF 122 YHXEB AM 9-11-2004 Tue 1900 (JAQ) |
| 5820 | E10 | YHF 13 RTSCB AM 9-11-2004 Tue 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 9-11-2004 Tue 2000 (JAQ) |
| 5820 | E10 | YHF 39 GAJLN AM 10-11-2004 Wed 1900 (JAQ) |
| 5820 | E10 | YHF 59 FZOVG ?? ????? AM 10-11-2004 Wed 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 10-11-2004 Wed 2000 (JAQ) |
| 5820 | E10 | YHF 39 GAJLN AM 13-11-2004 Sat 1900 (JAQ) |
| 5820 | E10 | YHF Tx Progress AM 13-11-2004 Sat 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 13-11-2004 Sat 2000 (JAQ) |
| 5820 | E10 | YHF ?? NH?JY AM 14-11-2004 Sun 1900 (JAQ) |
| 5820 | E10 | YHF Tx Progress AM 14-11-2004 Sun 1930 (JAQ) |
| 5820 | E10 | YHF1 AM 14-11-2004 Sun 2000 (JAQ) |
| 5820 | E10 | YHF2 AM 16-11-2004 Tue 2200 (JAQ) |
| 5820 | E10 | YHF Tx Progress AM 16-11-2004 Tue 2230 (JAQ) |
| 5820 | E10 | YHF 121 GJAZE AM 18-11-2004 Thu 1900 (JAQ) |
| 5820 | E10 | YHF 68 CSLWS AM 18-11-2004 Thu 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 18-11-2004 Thu 2000 (JAQ) |
| 5820 | E10 | YHF 121 GJAZE AM 20-11-2004 Sat 1900 (JAQ) |
| 5820 | E10 | YHF 68 CSLWS AM 20-11-2004 Sat 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 20-11-2004 Sat 2000 (JAQ) |
| 5820 | E10 | YHF 27 KIRWN AM 22-11-2004 Mon 1900 (JAQ) |
| 5820 | E10 | YHF 40 FJWEB AM 22-11-2004 Mon 1930 (JAQ) |
| 5820 | E10 | YHF2 AM 22-11-2004 Mon 2000 (JAQ) |
| 5883.0 | V02 | Broken//S800M//Brooklyn USB 27-11-2004 Sat 0540 (GS) |
| 5883.0 | V02a | USB 19-11-2004 Fri 0500 (a6kxqa) |
| 6250 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004
1607 (TI) |
| 6270 | E10 | ULX2 AM 29-10-2004 Fri 1530 (DNZ) |
| 6270 | E10 | ULX2 AM 1-11-2004 Mon 1930 (JAQ) |
| 6270 | E10 | ULX 69 XIECB 50 LOLDR AM 2-11-2004 Tue 2030 (JAQ) |
| 6270 | E10 | ULX2 AM 4-11-2004 Thu 1830 (JAQ) |
| 6270 | E10 | ULX2 AM 8-11-2004 Mon 2030 (JAQ) |
| 6270 | E10 | ULX2 AM 9-11-2004 Tue 1930 (JAQ) |
| 6270 | E10 | ULX2 AM 10-11-2004 Wed 1930 (JAQ) |
| 6270 | E10 | ULX2 AM 13-11-2004 Sat 1930 (JAQ) |
| 6270 | E10 | ULX2 AM 14-11-2004 Sun 1930 (JAQ) |
| 6270 | E10 | ULX 103 CPUJT AM 16-11-2004 Tue 2300 (JAQ) |
| 6270 | E10 | ULX2 AM 18-11-2004 Thu 1930 (JAQ) |
| 6270 | E10 | ULX2 AM 20-11-2004 Sat 1930 (JAQ) |
| 6270 | E10 | ULX2 AM 22-11-2004 Mon 1930 (JAQ) |
| 6370 | E10 | VLB2 AM 17-11-2004 1845 (KK2) |
| 6379 | M22 | 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB) |

6379.0 M22 4XZ msg in progress 5LG for gr 83 CW 13-11-2004 Sat 0022 (LC2)
6379.0 M22 4XZ msg in progress 5LG CW 14-11-2004 Sun 0021 (LC2)
6379.0 M22 4xz CW 15-11-2004 Mon 1738 (DNZ)
6417 XSL Slot Machine (Japanese navy modem) FSK 10-10-2004 1608 (TI)
6445 XSL Slot Machine (Japanese navy modem) FSK 10-10-2004 1608 (TI)
6485 E03 ID 77492 AM 29-10-2004 Fri 1800 (DNZ)
6485.0 E03 ID 41236 USB 11-11-2004 Thu 1707 (DNZ)
6498 E10 PCD2 AM 29-10-2004 Fri 1530 (DNZ)
6768.0 M08 Along with V2//S800M//Brooklyn CW 29-11-2004 Mon 0400 (GS)
6768.0 V02 28013/54151/76462//S800M//Brooklyn USB 29-11-2004 Mon 0400 (GS)
6797 V02a in progress AM 21-11-2004 2204 (AB)
6797 V02c Cuban numbers AM 27-11-2004 Sat 2205 (AB)
6797.0 M08 CW 26-11-2004 Fri 0012 (FAN)
6797.0 M08c ID 38771 43482 91232 CW 26-11-2004 Fri 1200 (MS)
6797.0 V02 very good at WebRX loc given above USB 6-11-2004 Sat 2200 (AVX)
6797.0 V02 AM 22-11-2004 Mon 0022 (MDC)
6797.0 V02a AM 6-11-2004 Sat 2200 (CS)
6797.0 V02c (in progress - missed callup) (YL/SS) AM 19-11-2004 Fri 2200 (MS)
6797.0 V02c A346 72x5 (R3) (YL/SS - pause every 10th group) AM 20-11-2004 Sat 2100 (MS)
6797.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) (rpt of 2100z o AM 22-11-2004 Mon 2200 (MS)
6797.0 V02c A346 72x5 (R3) (YL/SS) AM 23-11-2004 Tue 2200 (MS)
6797.0 V02c (caught in snowstorm! unable to get home in time for callups AM 24-11-2004 Wed 2200 (MS)
6797.0 V02c A346 72x5 (R3) (YL/SS) AM 26-11-2004 Fri 2200 (MS)
6797.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM 27-11-2004 Sat 2200 (MS)
6797.0 V02c A346 72x5 (R3) (YL/SS) AM 28-11-2004 Sun 2200 (MS)
6797.0 V02c A346 72x5 (R3) (early start) AM 30-11-2004 Tue 2200
6826.0 V02a ID 03152 42203 99703 (YL/SS) AM 22-11-2004 Mon 0900 (MS)
6840 E10 EZI2//9130 AM 1-11-2004 Mon 1930 (JAQ)
6840 E10 EZI 65 VGAXK, //9130 AM 1-11-2004 Mon 2000 (JAQ)
6840 E10 EZI 08 UCLXJ AM 2-11-2004 Tue 2030 (JAQ)
6840 E10 EZI 2 AM 4-11-2004 Thu 1900 (JAQ)
6840 E10 EZI2//9130 AM 9-11-2004 Tue 1930 (JAQ)
6840 E10 EZI2 AM 10-11-2004 Wed 1930 (JAQ)
6840 E10 EZI2, //9130 AM 13-11-2004 Sat 1930 (JAQ)
6840 E10 EZI2 AM 14-11-2004 Sun 1930 (JAQ)
6840 E10 EZI 27 JDWKR AM 16-11-2004 Tue 2200 (JAQ)

6840 E10 EZI2 AM 18-11-2004 Thu 1930 (JAQ)
6840 E10 EZI2 AM 20-11-2004 Sat 1900 (JAQ)
6840 E10 EZI2 AM 20-11-2004 Sat 1930 (JAQ)
6840 E10 EZI2 AM 22-11-2004 Mon 1900 (JAQ)
6840 E10 EZI2 AM 22-11-2004 Mon 1930 (JAQ)
6840 E10 EZI2 AM 25-11-2004 1930 (TI)
6840.0 E10 EZI USB 1-11-2004 Mon 0246 (MT2)
6840.0 E10 USB 5-11-2004 Fri 0230 (DM)
6840.0 E10 EZI (not // 9130) USB 5-11-2004 Fri 0233 (MT2)
6840.0 E10 in progress. Digital data bursts throughout. USB
6-11-2004 Sat 0217 (MT2)
6840.0 E10 EZI 2 single "EZI" @ 0228 & 0229, start 0230. // 9130
USB 6-11-2004 Sat 0228 (MT2)
6840.0 E10 In progress at tune in. USB 17-11-2004 Wed 0246 (MT2)
6840.0 E10 EZI; no message USB 20-11-2004 Sat 0201 (MT2)
6840.0 E10 USB 20-11-2004 Sat 0231 (MT2)
6840.0 E10 in progress USB 23-11-2004 Tue 0235 (MT2)
6840.0 E10 in progress; // 9130 USB USB 24-11-2004 Wed 0240 (MT2)
6840.0 E10 EZI USB 25-11-2004 Thu 0200 (MT2)
6842.0 E10 (in progress - missed callup) (YL/EE) AM 19-11-2004
Fri 2200 (MS)
6854.0 M08a In true Cuban fasion, shifting frequency quite a bit
during t CW 11-11-2004 Thu 2200 (CS)
6854.0 M08c ID 96741 ----- 09452 (in progress - note first
addressee same CW 18-11-2004 Thu 2200 (MS)
6854.0 M08c ID ----- 99973 87553 CW 24-11-2004 Wed 2200 (MS)
6855.0 V02a New sked? AM 11-11-2004 Thu 2100 (CS)
6855.0 V02a USB 19-11-2004 Fri 2100 (a6kxqa)
6855.0 V02c Attencion 346 72x5 (PAUSE) (R4) -- YL/SS USB
12-11-2004 Fri 2100 (MS)
6855.0 V02c Attencion 346 72 (pause) x5 (R4) YL/SS (pause every 10
groups AM 13-11-2004 Sat 2100 (MS)
6855.0 V02c Attencion 888 16x2 Attencion 252 166x1 Attencion 888
16x2 (pa AM 16-11-2004 Tue 2100 (MS)
6855.0 V02c A888 16x2 A252 166x1 A888 16x2 (R4) (YL/SS) AM
17-11-2004 Wed 2100 (MS)
6855.0 V02c A888 16x2 A252 166X1 A888 16x2 (YL/SS - sends 450
group messa AM 18-11-2004 Thu 2100 (MS)
6855.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3)(YL/SS) AM
19-11-2004 Fri 2100 (MS)
6855.0 V02c A346 72x5 (R3) (YL/SS - pause every 10th group) AM
20-11-2004 Sat 2100 (MS)
6855.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
22-11-2004 Mon 2100 (MS)
6855.0 V02c A346 72x5 (R3) (YL/SS) AM 26-11-2004 Fri 2100 (MS)
6855.0 V02c Call up 888 17; note longer message than 0900, 1000
11/27/04 AM 27-11-2004 Sat 2100 (MT2)
6855.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM

27-11-2004 Sat 2100 (MS)
 6855.0 V02c A346 72x5 (R3) (YL/SS) AM 28-11-2004 Sun 2100 (MS)
 6898.0 XWP USB 12-11-2004 Fri 0013 (LC2)
 6912 E10 SYN2 AM 28-10-2004 2245 (CC)
 6912 E10 SYN2 AM 30-10-2004 1947 (KK2)
 6912 E10 SYN2 AM 30-10-2004 1947 (KK2)
 6929 E10 CI02 AM 19-10-2004 2146 (AHNG)
 6930 E10 CI02 AM 30-10-2004 1948 (KK2)
 6930 E10 CI02 AM 30-10-2004 1948 (KK2)
 6930 E10 CI02 AM 1-11-2004 Mon 1945 (JAQ)
 6930 E10 SYN2 AM 2-11-2004 Tue 2045 (JAQ)
 6930 E10 SYN2 AM 4-11-2004 Thu 1845 (JAQ)
 6930 E10 SYN2 AM 8-11-2004 Mon 2045 (JAQ)
 6930 E10 SYN2 AM 9-11-2004 Tue 1945 (JAQ)
 6930 E10 SYN2 AM 10-11-2004 Wed 1945 (JAQ)
 6930 E10 SYN2 AM 13-11-2004 Sat 1945 (JAQ)
 6930 E10 SYN2 AM 14-11-2004 Sun 1945 (JAQ)
 6930 E10 SYN2 AM 16-11-2004 Tue 2245 (JAQ)
 6930 E10 SYN2 AM 20-11-2004 Sat 1945 (JAQ)
 6930 E10 SYN2 AM 22-11-2004 Mon 1945 (JAQ)
 6930.0 E10 SYN - 2 No message. USB 5-11-2004 Fri 0148 (MT2)
 6930.0 E10 in progress. USB 26-11-2004 Fri 1349 (MT2)
 6930.0 E10 SYN - 2; no message USB 27-11-2004 Sat 0246 (MT2)
 6930.0 E10 SYN - 2 No message USB 27-11-2004 Sat 0246 (MT2)
 6933.0 M08c ID ----- 73821 (in progress) CW 13-11-2004 Sat
 6933.0 M08c ID 76463 94081 55801 CW 20-11-2004 Sat 1200 (MS)
 6933.0 M08c ID 33874 43481 91231 CW 25-11-2004 Thu 1200 (MS)
 6950 E06 285 285 64 64 00000. Signed off at 2314 UTC AM
 20-10-2004 2110 (AHNG)
 6950.0 M31 VVV VVV VVV DE FDG FDG FDG CW 26-11-2004 Fri 0045 (CS)
 6959 E03 LP USB 25-11-2004 1925 (TI)
 6959 M03 Linc Poacher in progress USB 27-11-2004 Sat 2121 (AB)
 6959.0 E03 ID 14060 USB 9-11-2004 Tue 1800 (DNZ)
 6959.0 E03 ID 77321 USB 15-11-2004 Mon 1700 (DNZ)
 6959.0 E03 header = 30559 USB 22-11-2004 Mon 2200 (RNL)
 6959.0 E03 77321//Recd on ARC-190//FL150 over Eastern Long Island
 and Ea USB 23-11-2004 Tue 1800 (GS)
 6959.0 E03 25812//Recd on ARC-190//FL150 over Maine USB
 23-11-2004 Tue 1900 (GS)
 6964.0 E07 981/0 AM 1-11-2004 Mon 2100 (HFD)
 6964.0 E07 981/0 AM 3-11-2004 Wed 2100 (HFD)
 6964.0 E07 almost no modulation, but good carrier AM 15-11-2004
 Mon 2100 (HFD)
 6980.0 S06 793 AM 13-11-2004 Sat 1800 (HFD)
 6988 E10 AM 29-10-2004 Fri 1405 (DNZ)
 7000 MX Cluster beacon "D". Spur of 7038.7 kHz CW 8-11-2004
 (DARC)
 7000 MX Cluster beacon "D". Spur freq CW 19-11-2004 2100 (AB)

7038.7 MX Cluster beacon "D" CW 31-10-2004 Sun 2000 (AB)
7038.7 MX Cluster beacon "D" CW 7-11-2004 Sun 1556 (AB)
7038.7 MX Cluster beacon "D" CW 8-11-2004 (DARC)
7038.7 MX Cluster beacon "D" CW 19-11-2004 2100 (AB)
7038.8 MX Cluster beacon "P" CW 7-11-2004 Sun 1556 (AB)
7039.0 MX cluster beacon "D" odessa CW 13-11-2004 Sat 0022 (LC2)
7039.0 MX cluster beacon "D" odessa CW 14-11-2004 Sun 0021 (LC2)
7039.2 MX Cluster beacon "F" CW 25-11-2004 1922 (TI)
7039.3 MX Cluster beacon "K" CW 25-11-2004 1922 (TI)
7039.4 MX Cluster beacon "M" CW 25-11-2004 1922 (TI)
7054.5 M89 V CP17 CP17 CP17 DE L9CC L9CC CW 17-10-2004 2240
(IARUMS)
7054.5 M89 V CP17 CP17 CP17 de L9CC L9CC CW 22-10-2004 2240 (TD)
7054.5 M89 V CP17 CP17 CP17 de L9CC L9CC CW 23-10-2004 1905 (TD)
7074 M89 V MW3D MW3D MW3D DE 2SLC 2SLC CW 24-10-2004 2355
(IARUMS)
7074 M89 V CP17 CP17 CP17 DE L9CC L9CC CW 25-11-2004 1940 (TI)
7077.4 MX Cluster beacon "D". Spur of 7038.7 kHz CW 8-11-2004
(DARC)
7077.4 MX Cluster beacon "D". Spur freq CW 19-11-2004 2100 (AB)
7079 M89 V XY5V XY5V XY5V DE 4PPW 4PPW CW 25-11-2004 1945 (TI)
7080.7 M89 V CP17 CP17 CP17 de L9CC L9CC CW 2-10-2004 2115 (TD)
7145 M89 V XY5V XY5V XY5V DE 4PPW 4PPW CW 29-11-2004 0749 (IB)
7320.0 M08c ID 38771 43482 91232 (rpt of 1200z on 6797m) CW
26-11-2004 Fri 1300 (MS)
7337 E03 LP in progress USB 20-10-2004 2135 (AHNG)
7337.0 E03 header = 12147, whistle USB 24-11-2004 Wed 2200 (RNL)
7439 E11 312/00 USB 12-11-2004 1230 (AF)
7439.0 E11 312/00 AM 19-11-2004 Fri 1230 (HFD)
7440.0 S06 418-965/5=14026 AM 2-11-2004 Tue 0810 (HFD)
7440.0 S06 418-944/5=14024 AM 9-11-2004 Tue 0810 (HFD)
7482.0 V02c A888 16x2 A252 166x1 A888 16x2 (R4) (YL/SS) AM
17-11-2004 Wed 0900 (MS)
7482.0 V02c A346 72x5 (Then stops. Then sends:) A888 16x2 A252
166x1 A AM 24-11-2004 Wed 0900 (MS)
7519.0 M08a (Began callup and stopped for 10 minutes. Using M8a
format.) CW 22-11-2004 Mon 2200 (MS)
7519.0 M08c (too weak-could not get callups) CW 1-11-2004 Mon 2200
7519.0 M08c ID ----- 22263 ----- (missed 1st and 3rd callup) CW
3-11-2004 Wed 2200 (MS)
7519.0 M08c ID 17032 61862 43772 CW 5-11-2004 Fri 2200 (MS)
7519.0 M08c ID 17033 61863 43773 CW 8-11-2004 Mon 2200 (MS)
7519.0 M08c ID 64882 28142 43192 CW 10-11-2004 Wed 2200 (MS)
7519.0 M08c (too weak for copy) CW 12-11-2004 Fri 2200 (MS)
7519.0 M08c ID 28591 50091 86501 CW 17-11-2004 Wed 2200 (MS)
7519.0 M08c ID 28593 08912 86503 CW 19-11-2004 Fri 2200 (MS)
7519.0 M08c ID ----- 22663 82963 CW 24-11-2004 Wed 2200 (MS)
7519.0 M08c ID 67261 30051 50091 CW 26-11-2004 Fri 2200 (MS)

7520.0 V02c Attencion 888 16x2 Attencion 252 166x1 Attencion 888
16x2 (pa AM 16-11-2004 Tue 0900 (MS))
7520.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3)(YL/SS) AM
19-11-2004 Fri 0900 (MS)
7520.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3)(YL/SS)(Moved to
7887m whe AM 19-11-2004 Fri 1000 (MS)
7520.0 V02c (late start at 0906z, went right into message, no
calls) (YL/ AM 23-11-2004 Tue 0900 (MS))
7520.0 V02c A346 72x5 (R3) (Late start - YL/SS) AM 26-11-2004 Fri
0900 (MS)
7520.0 V02c Call up 343 72 (same as 11/28/04) AM 30-11-2004 Tue
0900 (MT2)
7526.0 M08c ID 17072 22262 34052 CW 2-11-2004 Tue 2200 (MS)
7526.0 M08c ID 96744 99972 87552 CW 23-11-2004 Tue 2200 (MS)
7526.0 M08c ID 67263 30053 50093 CW 30-11-2004 Tue 2200 (MS)
7527 V02a DGI AM 11-11-2004 0835 (NP4AI)
7527.0 V02a AM 29-11-2004 Mon 0009 (FAN)
7527.0 V02c (in progress)(YL/SS) AM 15-11-2004 Mon 0900 (MS)
7527.0 V02c Carrier up at 0900z, down at 0950z. No voice. AM
18-11-2004 Thu 0900 (MS)
7527.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
22-11-2004 Mon 0900 (MS)
7527.0 V02c A346 72x5 (R3) (YL/SS) AM 25-11-2004 Thu 0900 (MS)
7527.0 V02c Call up 343 72 AM 29-11-2004 Mon 0900 (MT2)
7540.0 E10 JSR 2 msgs: 13 KIMUW, 99 GQRSY/5091 AM 7-11-2004 Sun
1900 (JS3)
7555.0 M08a ID ----- 61322 (in progress - using M8a format)
CW 19-11-2004 Fri 0800 (MS)
7555.0 M08a ID ----- 52564 CW 24-11-2004 Wed 0800 (MS)
7555.0 M08c (in progress) CW 3-11-2004 Wed 0800 (MS)
7555.0 M08c ID ----- 13573 (in progress) CW 5-11-2004 Fri
7555.0 M08c (in progress) CW 8-11-2004 Mon 0800 (MS)
7555.0 M08c Mostly in the noise CW 10-11-2004 Wed 0800 (DNZ)
7555.0 M08c ID ----- 29061 71001 (in progress) CW 12-11-2004 Fri
0800 (MS)
7555.0 M08c (in progress) CW 15-11-2004 Mon 0800 (MS)
7555.0 M08c id 96001 43223 91753 repeat of 0700z CW 15-11-2004 Mon
0800 (DNZ)
7555.0 M08c (in progress - missed callups) CW 17-11-2004 Wed 0800
7555.0 M08c (in progress - missed callup) CW 22-11-2004 Mon 0800
7555.0 M08c ID 93952 29003 42693 (rpt of 0700z on 8136m) CW
26-11-2004 Fri 0800 (MS)
7580.0 M08 Weak//S800M//Brooklyn CW 25-11-2004 Thu 0800 (GS)
7580.0 M08a ID ----- 57236 13306 CW 23-11-2004 Tue 0800 (MS)
7580.0 M08c (IN PROGRESS) CW 2-11-2004 Tue 0800 (MS)
7580.0 M08c (IN PROGRESS) CW 2-11-2004 Tue 0800 (MS)
7580.0 M08c ID ----- 42112 (in progress) CW 4-11-2004 Thu
7580.0 M08c ""in progress"" weak but readable CW 6-11-2004 Sat

0800 (AC)

7580.0 M08c ID ----- 27801 16031 CW 6-11-2004 Sat 0800 (MS)

7580.0 M08c id 25841 43221 91751 repeat of 0700z CW 9-11-2004 Tue 0800 (DNZ)

7580.0 M08c Mostly in the noise CW 11-11-2004 Thu 0800 (DNZ)

7580.0 M08c ID ----- 27803 ----- (in progress) CW 11-11-2004 Thu 0800 (MS)

7580.0 M08c id 96002 46151 14951 CW 16-11-2004 Tue 0800 (DNZ)

7580.0 M08c ID 96002 46151 14951 (rpt of 0700z on 8186m) CW 16-11-2004 Tue 0800 (MS)

7580.0 M08c ID 38633 74453 67923 CW 20-11-2004 Sat 0800 (MS)

7580.0 M08c ID 93951 29002 49692 CW 25-11-2004 Thu 0800 (MS)

7583.0 V02a ID 03152 42203 99703 (YL/SS) (rpt of 0900z on 6826m) AM 22-11-2004 Mon 1000 (MS)

7615.0 XWP USB 12-11-2004 Fri 0013 (LC2)

7663.0 E11 232/00 AM 4-11-2004 Thu 0800 (HFD)

7681.0 M08c ID 49183 43222 91752 (rpt of 0700z on 8096m) CW 14-11-2004 Sun 0800 (MS)

7681.0 V02c Carrier up at 0950z. No voice. AM 18-11-2004 Thu 1000

7681.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) (rpt of 0900z o AM 22-11-2004 Mon 1000 (MS)

7681.0 V02c A346 72x5 (R3) (YL/SS) (rpt of 0900z on 7527m) AM 25-11-2004 Thu 1000 (MS)

7681.0 V02c i/p; pause every 10 grps AM 25-11-2004 Thu 1016 (BM)

7681.0 V02c Call up 343 72 (same as 0900) AM 29-11-2004 Mon 1000 (MT2)

7690 E10 VLB2 AM 30-10-2004 1545 (KK2)

7690 E10 VLB2 AM 30-10-2004 1545 (KK2)

7749 E11 312/00 USB 12-11-2004 1030 (AF)

7749.0 E11 312/00 AM 16-11-2004 Tue 1030 (HFD)

7775 E07 637 1 637 1 637 1 824 52 824 52 5FGs 000 000 AM 20-10-2004 2040 (AHNG)

7810 E10 KPA E88211600K42211630 AM 20-10-2004 2119 (AHNG)

7862.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM 24-11-2004 Wed 1000 (MS)

7887.0 V02 AM 22-11-2004 Mon 0020 (MDC)

7887.0 V02a USB 19-11-2004 Fri 2000 (a6kxqa)

7887.0 V02c (in progress - missed callup) AM 7-11-2004 Sun 0900

7887.0 V02c (in progress) YL/SS (pause every 10 groups) AM 13-11-2004 Sat 2000 (MS)

7887.0 V02c Attencion 888 16 252 166 (YL/SS) AM 14-11-2004 Sun 0900 (MS)

7887.0 V02c Attencion 888 16x2 Attencion 252 166x1 Attencion 888 16x2 (pa AM 16-11-2004 Tue 2000 (MS)

7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R4) (YL/SS) AM 17-11-2004 Wed 2000 (MS)

7887.0 V02c A888 16x2 A252 166X1 A888 16x2 (YL/SS - sends 450 group messa AM 18-11-2004 Thu 2000 (MS)

7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3)(YL/SS)(Moved
here when AM 19-11-2004 Fri 1000 (MS)
7887.0 V02c A346 72x5 (R3)(YL/SS) AM 19-11-2004 Fri 2000 (MS)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS - pause
every 1 AM 20-11-2004 Sat 0900 (MS)
7887.0 V02c (in progress - missed callup) AM 20-11-2004 Sat 2000
7887.0 V02c (Late start. Carrier up, no voice til 10 minutes
after. Mis AM 22-11-2004 Mon 2000 (MS)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
23-11-2004 Tue 1000 (MS)
7887.0 V02c YL, Sp. 5# sets, pause every 10 sets AM 24-11-2004 Wed
2000 (MT2)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
26-11-2004 Fri 1000 (MS)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
26-11-2004 Fri 2000 (MS)
7887.0 V02c in progress; YL, SS, pause every 10 sets. AM
26-11-2004 Fri 2011 (MT2)
7887.0 V02c Call up 888 17 AM 27-11-2004 Sat 0900 (MT2)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
27-11-2004 Sat 0900 (MS)
7887.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
27-11-2004 Sat 2000 (MS)
7887.0 V02c (in progress - missed calls) (YL/SS) AM 28-11-2004 Sun
0900 (MS)
7887.0 V02c Call up 343 42; faded out AM 28-11-2004 Sun 0900 (MT2)
7887.0 V02c A346 72x5 (R3) (YL/SS) AM 28-11-2004 Sun 2000 (MS)
7887.0 V02c Call up 343 52. Very poor conditions. AM 28-11-2004
Sun 2000 (MT2)
7890.0 M08a ID 33613 78391 55801 (M8a format) (rpt of 1200z on
6933m, but CW 20-11-2004 Sat 1300 (MS)
7890.0 M08c ID 33923 59991 73821 CW 13-11-2004 Sat 1300 (MS)
7890.0 M08c ID 33874 43481 91231 (rpt of 1200z on 6933m) CW
25-11-2004 Thu 1300 (MS)
7890.0 M08c (in progress) ----- 91233 CW 27-11-2004 Sat 1300
7918 E10 AM 29-10-2004 Fri 1608 (DNZ)
7918 E10 YHF AM 25-11-2004 1932 (TI)
7918.0 E10 USB 19-11-2004 Fri 0430 (a6kxqa)
7975.0 V02c ID 888 16 x2 (pause) 252 166 x1 (pause) 888 16 x2
(pause) YL/ AM 6-11-2004 Sat 1000 (MS)
7975.0 V02c Attencion 346 72 (pause) x5 (R4) YL/SS (pause every 10
groups AM 13-11-2004 Sat 1000 (MS)
7975.0 V02c Attencion 888 16 252 166 (YL/SS) (rpt of 0900z on
7887m) AM 14-11-2004 Sun 1000 (MS)
7975.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS - pause
every 1 AM 20-11-2004 Sat 1000 (MS)
7975.0 V02c A888 16x2 A252 166x1 A888 16x2 (YL/SS - pause every
10th gr AM 21-11-2004 Sun 1000 (MS)

7975.0 V02c A888 16x2 A252 166x1 A888 16x2 (R3) (YL/SS) AM
27-11-2004 Sat 1000 (MS)
7975.0 V02c A346 72x5 (R3) (YL/SS) AM 28-11-2004 Sun 1000 (MS)
7975.0 V02c Call up 343 52 (same start at 0900) AM 28-11-2004 Sun
1000 (MT2)
7985.0 V02c Call up 888 17 (same as 11/27/04 0900) AM 27-11-2004
Sat 1000 (MT2)
8009.0 M08a (Late start for sked. Missed callup. Using M8a
format.) CW 22-11-2004 Mon 2300 (MS)
8009.0 M08c (late start-no callups heard) CW 1-11-2004 Mon 2300
8009.0 M08c (in progress) CW 3-11-2004 Wed 2300 (MS)
8009.0 M08c ID 17031 61861 43771 CW 4-11-2004 Thu 2200 (MS)
8009.0 M08c ID 17033 61863 43773 (rpt of 2200z on 7519m) CW
8-11-2004 Mon 2300 (MS)
8009.0 M08c ID 64882 28142 43192 (rpt of 2200z on 7519m) CW
10-11-2004 Wed 2300 (MS)
8009.0 M08c ID 64883 28143 43193 CW 11-11-2004 Thu 2200 (MS)
8009.0 M08c ID 28591 50091 86501 (rpt of 2200z on 7519m) CW
17-11-2004 Wed 2300 (MS)
8009.0 M08c ID 96741 08911 86502 CW 18-11-2004 Thu 2200 (MS)
8010.0 V02a 88513//S800M//Brooklyn USB 24-11-2004 Wed 0600 (GS)
8026 E10 MIW2 AM 20-10-2004 2131 (AHNG)
8088.0 E11 rpt 183 oblique 00 USB 11-11-2004 Thu 0012 (LC2)
8088.0 E11 183/00 AM 30-11-2004 Tue 1300 (HFD)
8091.0 E11 232/00 AM 26-11-2004 Fri 0800 (HFD)
8096.0 M08c ID 49183 43222 91752 CW 14-11-2004 Sun 0700 (MS)
8097.0 V02 good sigs on the web RX USB 5-11-2004 Fri 1900 (AVX)
8097.0 V02 Weak//S800M//Brooklyn USB 27-11-2004 Sat 0615 (GS)
8097.0 V02a medium sigs on the web RX USB 5-11-2004 Fri 1800 (AVX)
8097.0 V02a USB 19-11-2004 Fri 1900 (a6kxqa)
8097.0 V02a ID 14921 50651 66662 AM 25-11-2004 Thu 0600 (MS)
8097.0 V02a Spanish female voice AM 27-11-2004 Sat 0600 (BW2)
8097.0 V02c Call up 245 53. Weak and fady. 3/2 call up, pause
every 10 s AM 25-11-2004 Thu 1900 (MT2)
8097.0 V02c Call up 343 52 (same as 0900, 1000 11/28/04) AM
28-11-2004 Sun 1800 (MT2)
8097.0 V02c (Too weak to get calls and confirm which V2c this is)
AM 28-11-2004 Sun 1800 (MS)
8097.0 V02c A346 72x5 (R3) (YL/SS) AM 28-11-2004 Sun 1900 (MS)
8097.0 V02c In progress. AM 28-11-2004 Sun 1921 (MT2)
8103 M22 4XZ. Israeli navy. Msgs CW 19-10-2004 2141 (AHNG)
8103 M22 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB)
8103.0 M22 4XZ messages interspersed with idling CW 3-11-2004 Wed
0450 (ZW)
8103.0 M22 4XZ msg in progress 5LG CW 14-11-2004 Sun 0021 (LC2)
8104 M22 vvv de 4xz 4xz Israeli Navy AM 29-10-2004 Fri 1410
8104 M22 vvv de 4xz 4xz Israeli Navy AM 30-10-2004 Sat 0606
8104 M22 vvv de 4xz 4xz Israeli Navy AM 31-10-2004 Sun 0415

8104.0 M22 4xz CW 9-11-2004 Tue 1700 (DNZ)
8104.0 M22 4xz CW 15-11-2004 Mon 0600 (DNZ)
8104.0 M22 4xz CW 15-11-2004 Mon 1744 (DNZ)
8110.0 S06 192/0 AM 2-11-2004 Tue 1730 (HFD)
8135.0 M08c ID 17031 61861 43771 (rpt of 2200z on 8009m) CW
4-11-2004 Thu 2300 (MS)
8135.0 M08c ID 17032 61862 43772 (rpt of 2200z on 7519m) CW
5-11-2004 Fri 2300 (MS)
8135.0 M08c ID 64883 28143 43193 (rpt of 2200z on 8009m) CW
11-11-2004 Thu 2300 (MS)
8135.0 M08c (in progress - missed callup) CW 12-11-2004 Fri 2300
8135.0 M08c ID 65593 30603 56063 (Late start - 2200z sked on 7526m
did no CW 16-11-2004 Tue 2300 (MS)
8135.0 M08c ID 96741 08911 86502 (rpt of 2200z on 8009m) CW
18-11-2004 Thu 2300 (MS)
8135.0 M08c ID 28593 08912 86503 (rpt of 2200z on 7519m) CW
19-11-2004 Fri 2300 (MS)
8135.0 M08c ID 93532 22662 82962 (this should have been a rpt of
2200z on CW 23-11-2004 Tue 2300 (MS)
8135.0 M08c A346 72x5 (R3) (YL/SS) (rpt of 2200z on 7519m) CW
26-11-2004 Fri 2300 (MS)
8135.0 M08c ID 67263 30053 50093 (rpt of 2200z on 7526m) CW
30-11-2004 Tue 2300 (MS)
8136.0 M08a ID 05726 87761 77951 (M8a format) CW 20-11-2004 Sat
1100 (MS)
8136.0 M08a ID 32531 84663 77952 CW 21-11-2004 Sun 1000 (MS)
8136.0 M08c ID 68581 03813 37253 CW 7-11-2004 Sun 1000 (MS)
8136.0 M08c ID 05725 11804 44673 CW 13-11-2004 Sat 1100 (MS)
8136.0 M08c ID 86371 06283 06031 CW 14-11-2004 Sun 1000 (MS)
8136.0 M08c ID 93952 29003 42693 CW 26-11-2004 Fri 0700 (MS)
8136.0 M08c ID 92213 60321 39993 CW 28-11-2004 Sun 1000 (MS)
8136.0 V02a (in progress - missed calls) (YL/SS) AM 28-11-2004 Sun
0900 (MS)
8137.0 M08 Weak//S800M//Brooklyn CW 29-11-2004 Mon 0700 (GS)
8137.0 M08c mostly in the noise CW 10-11-2004 Wed 0700 (DNZ)
8137.0 M08c id 96001 43223 91753 CW 15-11-2004 Mon 0700 (DNZ)
8139.0 M08 C/W//S800M//Brooklyn CW 24-11-2004 Wed 0700 (GS)
8183.0 E07 id not to understand AM 17-11-2004 Wed 1800 (HFD)
8186.0 M08 Weak//S800M//Brooklyn CW 25-11-2004 Thu 0700 (GS)
8186.0 M08c ID ----- 14951 (in progress) CW 16-11-2004 Tue
0700 (MS)
8187.0 M08c id 25841 43221 91751 CW 9-11-2004 Tue 0700 (DNZ)
8313 XSL Slot Machine (Japanese navy modem) FSK 10-10-2004
1609 (TI)
8420.0 S06 831-247/5=55448 AM 1-11-2004 Mon 1200 (HFD)
8464 E03 ID 77492 AM 29-10-2004 Fri 1800 (DNZ)
8494.7 MX Cluster beacon "D" CW 31-10-2004 Sun 2000 (AB)
8494.7 MX Cluster beacon "D" CW 7-11-2004 Sun 1556 (AB)

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| 8494.7 | MX | cw beacon transmitting "d" CW 15-11-2004 Mon 1749 |
| 8544 | E11 | 187/00 USB 12-11-2004 1200 (AF) |
| 8588 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004 1609 (TI) |
| 8703.5 | XSL | Slot Machine (Japanese navy modem) FSK 10-10-2004 1610 (TI) |
| 8759 | E11 | 312/00 USB 19-10-2004 1035 (DW) |
| 9062.0 | M08c | ID ----- 74672 44673 (in progress) CW 14-11-2004 Sun 0600 (MS) |
| 9062.0 | M08c | In Progress//YB400//NPT CW 28-11-2004 Sun 0530 (GS) |
| 9063.0 | V02a | 88513//S800M//Brooklyn USB 24-11-2004 Wed 0700 (GS) |
| 9063.0 | V02a | AM 26-11-2004 Fri 0007 (FAN) |
| 9063.0 | V02a | ID 14952 04052 03823 (YL/SS) AM 26-11-2004 Fri 0700 |
| 9130 | E10 | EZI2 AM 1-11-2004 Mon 1900 (JAQ) |
| 9130 | E10 | EZI 42 PTM?F AM 4-11-2004 Thu 1800 (JAQ) |
| 9130 | E10 | EZI2 AM 9-11-2004 Tue 1900 (JAQ) |
| 9130 | E10 | EZI 65 VGAXK AM 9-11-2004 Tue 2000 (JAQ) |
| 9130 | E10 | EZI2 , //6840 AM 10-11-2004 Wed 1900 (JAQ) |
| 9130 | E10 | EZI 65 VGAXK AM 10-11-2004 Wed 2000 (JAQ) |
| 9130 | E10 | EZI2 , //6840 AM 13-11-2004 Sat 1900 (JAQ) |
| 9130 | E10 | EZI UNREADABLE AM 13-11-2004 Sat 2000 (JAQ) |
| 9130 | E10 | EZI2 , //6840 AM 14-11-2004 Sun 1900 (JAQ) |
| 9130 | E10 | EZI2 , //6840 AM 18-11-2004 Thu 1900 (JAQ) |
| 9130 | E10 | EZI2 AM 25-11-2004 1930 (TI) |
| 9130.0 | E10 | // 6840, but much weaker. USB 6-11-2004 Sat 0230 (MT2) |
| 9130.0 | E10 | in progress // 6840 USB USB 24-11-2004 Wed 0240 (MT2) |
| 9152.0 | M08a | ID 05726 87761 77951 (M8a format) (rpt of 1100z on 8136m) CW 20-11-2004 Sat 1200 (MS) |
| 9152.0 | M08c | ID 05725 11804 44673 (rpt of 1100z on 8136m) CW 13-11-2004 Sat 1200 (MS) |
| 9153.0 | M08 | CW 29-11-2004 Mon 0010 (FAN) |
| 9153.0 | M08a | ID ----- 84662 ----- (Using M8a format) CW 19-11-2004 Fri 1000 (MS) |
| 9153.0 | M08c | ID 49252 77953 74451 CW 22-11-2004 Mon 1000 (MS) |
| 9153.0 | M08c | ID 19902 74452 57263 CW 26-11-2004 Fri 1000 (MS) |
| 9153.0 | V02 | Loud and Clear//S800M//Brooklyn USB 25-11-2004 Thu 0700 (GS) |
| 9153.0 | V02 | Weak//S800M//Brooklyn USB 27-11-2004 Sat 0700 (GS) |
| 9153.0 | V02 | 40103/54082/40253//S800M//Brooklyn USB 29-11-2004 Mon 0500 (GS) |
| 9154.0 | V02 | in progress 5FG AM 27-11-2004 Sat 0007 (LC2) |
| 9165.0 | S17C | 72042 AM 3-11-2004 Wed 1250 (HFD) |
| 9165.0 | S17C | 87038 AM 4-11-2004 Thu 1250 (HFD) |
| 9165.0 | S17C | 67035 AM 5-11-2004 Fri 1250 (HFD) |
| 9165.0 | S17C | 68032 AM 6-11-2004 Sat 1250 (HFD) |
| 9165.0 | S17C | 83030 AM 7-11-2004 Sun 1250 (HFD) |
| 9165.0 | S17C | 72033 AM 14-11-2004 Sun 1250 (HFD) |
| 9165.0 | S17C | 89027 AM 17-11-2004 Wed 1250 (HFD) |

9165.0 S17C 71041 AM 18-11-2004 Thu 1250 (HFD)
 9165.0 S17C 83026 AM 21-11-2004 Sun 1250 (HFD)
 9165.0 S17C 72031 AM 26-11-2004 Fri 1250 (HFD)
 9165.0 S17C 71036 AM 30-11-2004 Tue 1250 (HFD)
 9237.0 M08a M8a or M8c i/p CW 25-11-2004 Thu 1022 (BM)
 9237.0 M08c ID 05501 39203 13974 CW 25-11-2004 Thu 1000 (MS)
 9238.0 M08 Weak//S800M//Brooklyn CW 29-11-2004 Mon 0700 (GS)
 9238.0 M08a ID ----- 44132 07212 (In progress) CW 26-11-2004 Fri
 0900 (MS)
 9238.0 M08c ID 34901 68851 13571 (rpt of 0800z on 10446m) CW
 3-11-2004 Wed 0900 (MS)
 9238.0 M08c ID 34903 78853 13573 (rpt of 0800z on 10446m) CW
 5-11-2004 Fri 0900 (MS)
 9238.0 M08c (sked got off to late start - xmsn was all
 garbled-uncopiable CW 7-11-2004 Sun 1100 (MS)
 9238.0 M08c ID 86371 06283 06031 (rpt of 1000z on 8136m) CW
 14-11-2004 Sun 1100 (MS)
 9238.0 M08c ID ----- 63434 28044 CW 24-11-2004 Wed 0900 (MS)
 9238.0 M08c ID 19903 74453 85502 CW 28-11-2004 Sun 1100 (MS)
 9251 E03 LP. Id
 9251 E03 LP USB 28-10-2004 2135 (CC)
 9251.0 E03 ID 97802 USB 15-11-2004 Mon 1800 (DNZ)
 9251.0 E03 77321//Recd on ARC-190//FL150 over Eastern Long Island
 and Ea USB 23-11-2004 Tue 1800 (GS)
 9251.0 E03 25812//Recd on ARC-190//FL150 over Maine USB
 23-11-2004 Tue 1900 (GS)
 9251.0 E03 97802//Recd on ARC-190//FL150 over Eastern Long Island
 USB 23-11-2004 Tue 2000 (GS)
 9323.0 M08a ID 75526 00562 13973 CW 23-11-2004 Tue 1000 (MS)
 9323.0 M08a M8a or M8c i/p CW 25-11-2004 Thu 1004 (BM)
 9323.0 M08c ID 08323 45883 21612 CW 6-11-2004 Sat 1000 (MS)
 9323.0 M08c ID ----- 13972 (in progress) CW 20-11-2004 Sat
 9323.0 M08c (Station experiencing xmtr problems. Xmtr on and off.
 No ca CW 27-11-2004 Sat 1000 (MS)
 9323.0 M08c (in progress - missed calls) CW 28-11-2004 Sun 0900
 9323.0 V02 40103/54082/40253/Same as 0500 tranx//S800M//Brooklyn
 USB 29-11-2004 Mon 0600 (GS)
 9330.0 M08 In progress//S800M//Brooklyn CW 29-11-2004 Mon 0400
 9331.0 M08? ID 74582 23142 76293 (stops and goes silent before
 determinin CW 24-11-2004 Wed 1000 (MS)
 9331.0 V02 40103/54082/40253/Same as 0500 tranx//S800M//Brooklyn
 USB 29-11-2004 Mon 0600 (GS)
 9331.0 V02a 88513//S800M//Brooklyn USB 24-11-2004 Wed 0600 (GS)
 9331.0 V02a AM 29-11-2004 Mon 0006 (FAN)
 10046 M22 4XZ. Israeli Navy Haifa CW 27-11-2004 Sat 2116 (AB)
 10119.0 M08a Loud C/W in Brooklyn CW 24-11-2004 Wed 0500 (GS)
 10125 E10 CI02 AM 30-10-2004 1545 (KK2)
 10125 E10 CI02 AM 30-10-2004 1545 (KK2)

10126.0 M08 CW 29-11-2004 Mon 0011 (FAN)
10126.0 M08a ID 33453 30363 61323 (M8a format) CW 20-11-2004 Sat 0900 (MS)
10126.0 M08a ID 98343 83343 52563 (rpt of 0800z on 11432m) CW 23-11-2004 Tue 0900 (MS)
10126.0 M08c ID 54483 68823 29203 (rpt of 0800z on 11432m) CW 2-11-2004 Tue 0900 (MS)
10126.0 M08c ID 44201 08711 43981 (much stronger signal, rpt of 0800z on 1 CW 6-11-2004 Sat 0900 (MS)
10126.0 M08c (in progress - missed callup)(broadcast stopped at 0915z) CW 18-11-2004 Thu 0900 (MS)
10126.0 M08c ID 19902 74452 57263 (rpt of 1000z on 9153m) CW 26-11-2004 Fri 1100 (MS)
10180.0 S06 192/0 AM 23-11-2004 Tue 1630 (HFD)
10233.0 M08c In Progress//YB400//NPT CW 28-11-2004 Sun 0420 (GS)
10344.0 M08a not // to signal heard at same time on 10445 CW 18-11-2004 Thu 0330 (DM)
10344.0 M08c ID 08323 45883 21612 (rpt of 1000z on 9323m) CW 6-11-2004 Sat 1100 (MS)
10445.0 M08a not // to signal heard at same time on 10344 CW 18-11-2004 Thu 0330 (DM)
10446.0 M08 Along with V2/Faded away//S800M//Brooklyn CW 29-11-2004 Mon 0500 (GS)
10446.0 M08c ID 08321 45882 40924 CW 2-11-2004 Tue 1100 (MS)
10446.0 M08c ID 34901 68851 13571 CW 3-11-2004 Wed 0800 (MS)
10446.0 M08c ID 34903 78853 13573 CW 5-11-2004 Fri 0800 (MS)
10446.0 V02 In progress, excellent reception//S800M//Brooklyn USB 29-11-2004 Mon 0308 (GS)
10446.0 V02 40103/54082/40253//S800M//Brooklyn USB 29-11-2004 Mon 0500 (GS)
10648 E10 AM 29-10-2004 Fri 1608 (DNZ)
10671 M42 Russian Intel. Msg to 118 200.33Bd/500Hz 16-10-2004 1020 (LDO)
10671 M42 Russian Intel. Msg to 118 BAUDOT 200.33Bd/500Hz 16-10-2004 1020 (LDO)
10862.0 XP msg AM 5-11-2004 Fri 0700 (HFD)
10862.0 XP First time heard, but in the noise USB 16-11-2004 Tue 0700 (DNZ)
10862.0 XP msg AM 19-11-2004 Fri 0700 (HFD)
10871.7 MX Cluster beacon "D" CW 31-10-2004 Sun 0624 (WC)
10871.7 MX Cluster beacon "D" CW 7-11-2004 Sun 1556 (AB)
10871.9 MX Cluster beacon "S" CW 12-10-2004 0511 (WC)
10871.9 MX Cluster beacon "S" CW 23-10-2004 0513 (WC)
11063 M42 Russian Intel. Msg to 842 AM/MFSK-20/20Bd 1-11-2004 1340 (LDO)
11432.0 M08 Distorted//S800M//Brooklyn CW 27-11-2004 Sat 0800 (GS)
11432.0 M08a ID 98343 83343 52563 CW 23-11-2004 Tue 0800 (MS)
11432.0 M08c ID 54483 68823 29203 CW 2-11-2004 Tue 0800 (MS)

11432.0 M08c ID 54483 68823 29203 CW 2-11-2004 Tue 0800 (MS)
11432.0 M08c ID 44201 08711 43981 (vy weak signal, hard to copy) CW
6-11-2004 Sat 0800 (MS)
11432.0 M08c ID 08341 37321 17261 CW 25-11-2004 Thu 0800 (MS)
11545 E03 ID 64586 AM 29-10-2004 Fri 1700 (DNZ)
11545 E03 LP USB 25-11-2004 1925 (TI)
11545.0 E03 id 69234 USB 14-11-2004 Sun 1700 (DNZ)
11545.0 E03 25812//Recd on ARC-190//FL150 over Maine USB
23-11-2004 Tue 1900 (GS)
11565 E10 AM 29-10-2004 Fri 1605 (DNZ)
11565 E10 AM 29-10-2004 Fri 1620 (DNZ)
11565 E10 EZI AM 29-10-2004 Fri 1630 (DNZ)
11565 E10 EZI2 AM 25-11-2004 1930 (TI)
11565.0 E10 USB 19-11-2004 Fri 0230 (a6kxqa)
11565.0 M08 In progress//S800M//Brooklyn CW 30-11-2004 Tue 0402
11566.0 M08c (In progress - station stopped sending before 1st
message was CW 26-11-2004 Fri 1800 (MS)
11566.0 V02a ID 15313 61793 63053 AM 14-11-2004 Sun 1300 (MS)
11566.0 V02a ID ----- 57631 (YL/SS - in progress) AM
21-11-2004 Sun 1300 (MS)
11566.0 V02a ID 13062 44762 06462 (YL/SS) AM 28-11-2004 Sun 1300
12152.0 V07 159/0 AM 4-11-2004 Thu 0600 (HFD)
12152.0 V07 Very strong, about 60 over 9. Calling 159/000 AM
11-11-2004 Thu 0550 (Red)
12152.0 V07 159/0 AM 11-11-2004 Thu 0600 (HFD)
12152.0 V07 159/1 ends with 000 000 AM 16-11-2004 Tue 0600 (Red)
12162.0 XP msg AM 19-11-2004 Fri 0720 (HFD)
12165.0 V02 In progress, but not for long//S800M//Brooklyn USB
29-11-2004 Mon 0210 (GS)
12196 M42 Russian Intel. Msg to 118 BAUDOT 200.33Bd/500Hz
16-10-2004 1015 (LDO)
12196 M42 Russian Intel. Msg to 118 200.33Bd/500Hz 16-10-2004
1015 (LDO)
12603 E03 AM 29-10-2004 Fri 1505 (DNZ)
12603 E03 AM 29-10-2004 Fri 1610 (DNZ)
12603.0 E03 in progress AM 1-11-2004 Mon 1800 (VE7HUN)
12603.0 E03 30559//Recd on ARC-190//@KFOK USB 23-11-2004 Tue 1400
(GS)
12603.0 E03 97802//Recd on ARC-190//FL150 over Eastern Long Island
USB 23-11-2004 Tue 2000 (GS)
13369 M42 Russian Intel. Msg to 513 AM/MFSK-20/20Bd 1-11-2004
0930 (LDO)
13375 E03 ID 24540 AM 29-10-2004 Fri 1500 (DNZ)
13375 E03 LP USB 13-11-2004 1621 (RGA)
13375.0 E03 into message USB 22-11-2004 Mon 1523 (RNL)
13375.0 E03 header = 45245, signal faded/jammed around 1635,
hardly legib USB 22-11-2004 Mon 1600 (RNL)
13462 M42 Russian Intel. Msg to 736 AM/MFSK-20/20Bd 1-11-2004

0920 (LDO)

| | | |
|---------|------|----------------------------------------------------------------------------------------------|
| 13527.3 | MX | Cluster beacon "D" CW 31-10-2004 Sun 0624 (WC) |
| 13527.7 | MX | Cluster beacon "D" CW 7-11-2004 Sun 1556 (AB) |
| 13527.8 | MX | Cluster beacon "P" CW 7-11-2004 Sun 1556 (AB) |
| 13527.9 | MX | Cluster beacon "S" CW 12-10-2004 1138 (WC) |
| 13527.9 | MX | Cluster beacon "S" CW 23-10-2004 0513 (WC) |
| 13528.2 | MX | Cluster beacon "F" CW 12-10-2004 1345 (WC) |
| 13528.4 | MX | Cluster beacon "M" CW 6-11-2004 (DmA) |
| 13533 | E10 | AM 29-10-2004 Fri 1605 (DNZ) |
| 13533 | E10 | AM 29-10-2004 Fri 1625 (DNZ) |
| 13533 | E10 | EZI AM 29-10-2004 Fri 1630 (DNZ) |
| 13533 | E10 | AM 29-10-2004 Fri 1745 (DNZ) |
| 13552.0 | V07 | 159/0 AM 11-11-2004 Thu 0620 (HFD) |
| 13552.0 | V07 | Signed on for a minute at 0611 and went off.. back up
0612.. AM 16-11-2004 Tue 0612 (Red) |
| 13866.0 | M08c | ID ----- 73821 (in progress) (this is a harmonic
of the CW 13-11-2004 Sat 1200 (MS) |
| 13872.0 | XP | msg AM 19-11-2004 Fri 0740 (HFD) |
| 14487 | E03 | ID 17633 AM 29-10-2004 Fri 1600 (DNZ) |
| 14487.0 | E03 | Moderate signal today, S5 USB 2-11-2004 Tue 1300 (ZW) |
| 14487.0 | E03 | USB 2-11-2004 Tue 1400 (ZW) |
| 14487.0 | E03 | USB 4-11-2004 Thu 1400 (ZW) |
| 14487.0 | E03 | Q5 S6-7 USB 20-11-2004 Sat 1230 (VK4ZBV) |
| 14487.0 | E03 | 30559//Recd on ARC-190//@KFOK USB 23-11-2004 Tue 1400
(GS) |
| 14490 | E03 | ID 35270 S1 AM 29-10-2004 Fri 1401 (DNZ) |
| 14844 | M42 | Russian Intel. Msg to 736 AM/MFSK-20/20Bd 1-11-2004
0930 (LDO) |
| 14952.0 | V07 | 159/1 51 AM 16-11-2004 Tue 0629 (Red) |
| 14953 | M42 | Russian Intel. Msg to 513 AM/MFSK-20/20Bd 1-11-2004
0930 (LDO) |
| 14973 | M42 | Dept of State Comms, Moscow. Msg on link 00089
MFSK-32/CROWD36 1-11-2004 1430 (LDO) |
| 15682.0 | E03 | Heavy QRM from R. Deutsche Welle on 15680 USB
4-11-2004 Thu 1400 (ZW) |
| 15684 | E03 | ID 35270 S4 AM 29-10-2004 Fri 1400 (DNZ) |
| 16084 | E03 | ID 35270 S3 AM 29-10-2004 Fri 1400 (DNZ) |
| 16084 | E03 | ID 17633 AM 29-10-2004 Fri 1600 (DNZ) |
| 16084.0 | E03 | Good signal, S7 USB 2-11-2004 Tue 1300 (ZW) |
| 16084.0 | E03 | USB 4-11-2004 Thu 1400 (ZW) |
| 16314.0 | E03 | Good signal, S7 today USB 2-11-2004 Tue 1400 (ZW) |
| 16331.7 | MX | Cluster beacon "D" CW 26-10-2004 1407 (RGA) |
| 16331.7 | MX | Cluster beacon "D" CW 31-10-2004 Sun 0624 (WC) |
| 16331.7 | MX | Cluster beacon "D" CW 7-11-2004 Sun 1556 (AB) |
| 16331.9 | MX | Cluster beacon "S" CW 12-10-2004 1702 (WC) |
| 16331.9 | MX | Cluster beacon "S" CW 23-10-2004 0513 (WC) |
| 16414 | E03 | LP. Id 64586 USB 26-10-2004 1405 (RGA) |
| 18190 | S06 | ended 00000 AM 25-11-2004 1305 (TI) |

20322 M42 Dept of State Comms, Moscow. Msg on link 10042
MFSK-32/CROWD36 6-11-2004 0822 (LDO)

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